

招商银行全资附属机构

Ascentage Pharma (6855 HK)

Collaboration with AstraZeneca for development of APG-2575

On 22 Jun 2020, Ascentage announced it has entered a clinical collaboration with AstraZeneca (AZN US, NR) to carry out a global multicenter clinical trial to evaluate the combination of APG-2575 with CALQUENCE (acalabrutinib, a BTK inhibitor) for r/r CLL/SLL. We lifted TP to HK\$70.7 and maintain BUY.

- APG-2575 collaboration with AstraZeneca's acalabrutinib for r/r CLL/SLL. Ascentage announced a clinical collaboration with Acerta Pharma, the hematology research and development center of excellence of AstraZeneca, in a clinical trial evaluating the combination of APG-2575 (Bcl2 inhibitor) and acalabrutinib (BTK inhibitor) for r/r CLL/SLL. This trial is a global, multicenter, open-label Phase Ib/II dose-escalation and dose-expansion study to assess the safety and anticancer activity of APG-2575 with or without acalabrutinib. The study was already initiated in the US with the dosing of first patient, and planned to expand in Europe, and Australia.
- The excellent results of venetoclax + ibrutinib combination implies promising outlook of Bcl-2+BTK combination. In ASCO 2018, a Phase II trial (CAPTIVATE, NCT02910583) showed excellent results of venetoclax +ibrutinib in 1L CLL/SLL with 100% ORR and 77% of MRD(-) response in peripheral blood after six cycles. Results were updated in ASH 2019 with undetectable MRD rates of 75% and 72% in the peripheral blood and bone marrow, respectively. As the second Bcl-2 inhibitor entered into clinical stage globally, APG-2575 + acalabrutinib also has large potential, in our view.
- APG-2575 has good preliminary data and multiple trials ongoing. APG-2575 is under four phase lb/ll trials in the US and China, including a Phase lb/ll trial for r/r CLL/SLL (first patient enrolled in Mar 2020) in US, a Phase lb/ll trial for WM in US; a Phase lb trial for r/r AML in China and a Phase lb/ll trial for r/r CLL/SLL in China. Phase I study of APG-2575 has shown a promising efficacy in enrolled patients, of which six out of eight CLL patients achieved hematological CR. In addition, no DLTs (dose limiting toxicities) and no TLS (tumor lysis syndrome) was observed with the MTD (maximum tolerable dose) not reached at 20-800mg dose levels so far.
- Lift TP to HK\$70.7 and maintain BUY. We raised APG-2575's PoS (probability of success) for risk-adjusted revenue starting to generate from 2023E to reflect the positive impact of this collaboration. Given that the clinical cooperation with AstraZeneca indicates faster clinical execution and higher chances of success for APG-2575, we lifted TP to HK\$70.7 based on an 8-year DCF valuation (WACC: 10.98%, terminal growth of 3.0%).

Earnings Summary

(YE 31 Dec)	FY18A	FY19A	FY20E	FY21E	FY22E
Revenue (RMB mn)	7	15	7	7	152
YoY growth (%)	8	113	(52)	0	2,073
Net profit (RMB mn)	(345)	(1,481)	(729)	(794)	(822)
EPS (RMB)	N/A	(12.69)	(3.49)	(3.80)	(3.94)
Consensus EPS (RMB)	N/A	N/A	(3.54)	(3.42)	(2.18)
R&D expenses (RMB mn)	(250)	(464)	(600)	(600)	(600)
Capex (RMB mn)	(48)	(77)	(400)	(450)	(100)
Current ratio	9.4	4.5	0.5	0.1	0.1

Source: Company data, Bloomberg, CMBIS estimates

BUY (Maintain)

Target Price HK\$70.7 (Previous TP HK\$61.1)
Up/Downside +63.1%
Current Price HK\$46.4

China Healthcare Sector

Sam HU, PhD (852) 3900 0882 samhu@cmbi.com.hk

Jill WU, CFA (852) 3900 0842 jillwu@cmbi.com.hk

Amy GE (852) 3761 8778 amyge@cmbi.com.hk

Stock Data	
Mkt. Cap. (HK\$ mn)	9,056
Avg. 3mths t/o (HK\$ mn)	16.74
52W High/Low (HK\$)	53.6/19.8
Total Issued Shares (mn)	209
Source: Bloomberg	

Shareholding StructureManagement32.17%Collected Mind (3SBio)4.85%Sino Biopharma2.2%Institution investors26.28%Free float34.5%

 Share Performance

 Absolute
 Relative

 1-mth
 64.9%
 62.5%

 3-mth
 120.7%
 104.2%

 6-mth
 47.6%
 66.9%

 Source: Bloomberg

12-mth Price Performance

Source: SZSE



Source: Bloomberg

Auditor: Ernst & Young

Related reports

HQP-1351 NDA submitted in China – 19 Jun 2020

Please cast your valuable vote for CMBIS research team in the 2020 Asiamoney Brokers Poll:

https://euromoney.com/brokers



Figure 1: Revenue forecast of APG-2575 and key assumptions

	2023E	2024E	2025E	2026E	2027E	2028E	2029E	2030E
APG-2575 sales in CLL/SLL (RMB mn)	1,197	1,892	2,554	2,993	3,959	4,474	5,019	5,594
Probability of success for CLL/SLL	50%	50%	50%	50%	50%	50%	50%	50%
APG-2575 sales in AML (RMB mn)	196	327	448	532	657	719	784	836
Probability of success for AML	30%	30%	30%	30%	30%	30%	30%	30%
APG-2575 sales in MM (RMB mn)	172	337	506	620	781	856	933	1,006
Probability of success for MM	15%	15%	15%	15%	15%	15%	15%	15%
Risk-adjusted APG-2575 sales (RMB mn)	683	1,095	1,487	1,749	2,294	2,581	2,885	3,199

Source: Company data, CMBIS

Figure 2: CMBIS estimates vs consensus

(RMB mn)		CMBIS		(Consensu	s	Diff (%)			
(KINID IIIII)	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	FY20E	FY21E	FY22E	
Revenue	7	7	152	11	133	416	-35%	-95%	-63%	
Gross profit	7	7	106	10	126	353	-33%	-94%	-70%	
Operating profit	(713)	(747)	(739)	(732)	(791)	(732)	N/A	N/A	(732)	
Net profit	(729)	(794)	(822)	(774)	(698)	(527)	N/A	N/A	(774)	
EPS (RMB)	(3.49)	(3.80)	(3.94)	(3.54)	(3.42)	(2.18)	N/A	N/A	(3.54)	

Source: Company data, CMBIS estimates

Figure 3: Peers comparison

Company	Ticker (HKD)	Rating	Current Px	Mkt Cap	Px Change (%)			AVG Trading Turnover (HKD mn)			IPO	IPO Px	
		(HKD)		(HKD)	(USD mn)	30 d	60 d	90 d	30 d	60 d	90 d	Date	(HKD)
Ascentage	6855.HK	61.1	BUY	46.35	1,249	72%	66%	111%	41	24	17	2019-10-28	34.20
InnoCare	9969 HK	16.2	BUY	52.15	3,657	23%	20%	60%	7	5	4	2019-09-25	49.60
Henlius	2696.HK	57.2	BUY	14.34	2,385	3%	-4%	48%	41	62	102	2020-03-23	8.95
Beigene	6160.HK	N/A	NR	111.30	14,514	17%	16%	39%	21	19	16	2018-08-08	108.00
Innovent	1801.HK	N/A	NR	49.50	8,577	22%	42%	72%	168	172	160	2018-10-31	13.98
Junshi	1877.HK	N/A	NR	54.00	5,681	31%	59%	96%	59	62	49	2018-12-24	19.38
CanSino	6185.HK	N/A	NR	185.30	5,323	-17%	30%	59%	441	403	371	2019-03-28	22.00
AkesoBio	9926.HK	N/A	NR	31.90	3,239	24%	N/A	N/A	135	N/A	N/A	2020-04-24	16.18
AlphaMab	9966.HK	N/A	NR	17.40	2,096	-7%	-3%	24%	67	49	37	2019-12-12	10.20
CStone	2616.HK	N/A	NR	9.76	1,295	35%	8%	16%	20	18	14	2019-02-26	12.00
Kintor	9939.HK	N/A	NR	15.54	741	N/A	N/A	N/A	N/A	N/A	N/A	2020-05-22	20.15

Source: Bloomberg, CMBIS



Figure 4: Summary of Venetoclax (Bcl-2 inhibitor) trials

	Venetoclax	Venetoclax+Rituxan vs Bendamustine+Rituximab	Venetoclax+Azacitidine or decitabine	Venetoclax+low-dose cytarabine	Venetoclax+Gazvya vs. Chlorambucil+Gazvya	Venetoclax+Ibrutinib
Source	FDA approved (Apr 2016)	FDA approved (Jun 2018)	FDA approved (Nov 2018)	FDA approved (Nov 2018)	FDA approved (May 2019)	ASCO 2018; ASH 2019
Trial ID	M13-982 (NCT01889186)	MURANO (NCT02005471)	M14-358 (NCT02203773)	M14-387 (NCT02287233)	CLL14 (NCT02242942)	CAPTIVATE (NCT02910583)
Indication	r/r CLL/SLL with 17p Del	r/r CLL/SLL	AML	AML	1L CLL/SLL	1L CLL/SLL
Enrolment (N)	106	389	115	82	432	164
Phase	Phase II	Phase III	Phase lb	Phase I/II	Phase II	Phase II
Regimen	20mg QD, increasing over a 5-week period to 400mg	VEN+R: 5-week ramp up of venetoclax to 400mg, then 6 cycles of VEN+R, followed by VEN-mono for up to 2 years Vs B+R: 70 mg/m²+ 375 mg/m² for 6 cycles	VEN: 5-week ramp up of venetoclax to 400mg QD Azacitidine: 75 mg/m² day1-7 per cycle Decitabine: 20 mg/m² day1-7 per cycle	VEN: 5-week ramp up of venetoclax to 600mg QD Cytarabine: 20 mg/m² day1-10 per cycle	VEN+G: 5-week ramp up of venetoclax to 400mg QD + obinutuzumab 1000mg day 1/8/15 in clcle 1 and day 1 for 6 cycle Vs Chlorambucil+G: chlorambucil 0.5mg/kg day 1/15 for 12 cycle + obinutuzumab 1000mg day 1/8/15 in clcle 1 and day 1 for 6 cycle	VEN: 5-week ramp up of venetoclax to 400mg QD Ibrutinib: 420mg QD
ORR	80% (2008 IWCLL)	92% vs 72% (2008 IWCLL)			85% vs 71% (2008 IWCLL)	100% (11/11) (undetectable MRD rates of 75%(PB) and 72%(BM))
CR	8% (CR+CRi)	8% vs 4% (CR+CRi)	61.2% vs 61.5% (CR+CRh)	43% (CR+CRh)	50% vs 23% (CR+CRi)	55% (CR+CRi)
PR	73% (nPR+PR)	84% vs 69% (nPR+PR)	- 1	-	35% vs 48%	45%
SD	-	-	-	-	-	-
DCR	-		-	-	-	-
m Follow-up	22m	22.9m	7.9m vs 11m	6.5m	28m	-
PFS	-	NR vs 18.1m	-	-	NR vs NR	-
os	-	NR vs NR	-	-	NR vs NR	-
DoR	Not Reached	-	-	-	-	-
		G3 AE: 82% vs. 70.2%			The most common AE: neutropenia (60%), diarrhea (28%), fatigue (21%), nausea (19%), anemia (17%), and upper respiratory tract infection (17%).	00 TDAT 570
Common AEs		The most common G3 AE: Neutropenia 57.7% vs. 38.8%, Febrile neutropenia 3.6% vs. 9.6%, Infections 17.5% vs. 21.8% Death 5.2% vs. 5.9%.			The most common G3 AE: Neutropenia 56% vs. 52%, Anemia 8% vs. 7%, Diarhea 4% vs. 1%, Vomitting 1% vs. 1%, Fatigue 2% vs. 1%, Dose interruptions due to AE 74% (Venetoclax arm) Dose reductions due to AE 21% (Venetoclax arm) Treatment discontinuation due to AE 16% (Venetoclax arm)	G3 TRAE 57% Serious TRAE 11% G3 AEs were more frequent during the first 3 cycles of combination (39%), and then decreased to 15% in the last 3-4 cycles

Source: Companies data, ASH, ASCO, EHA, ICML, CMBIS

Figure 5: BTK inhibitors under development for NHL diseases in China (as of 18 Jun 2020)

Candidates	Binding	Company				NHL indicati	ons		
Candidates	properties		CLL/SLL	MCL	WM	MZL	FL	DLBCL	CNSL
Ibrutinib	Irreversible	Abbvie / JNJ	Marketed (1L)	Marketed (2L)	Marketed (2L)	-	-	Ph2 (combo, 1L)	-
Acalabrutinib	Irreversible	AstraZeneca	Ph2 (2L) Ph3 (1L)	Ph2 (2L)	-	-	-	-	-
Zanubrutinib / BGB-3111	Irreversible	BeiGene	Marketed (2L)	Marketed (2L)	Ph2 (2L)	Ph2 (2L)	Ph2 (combo, 2L)	Ph2 (2L)	-
Orelabrutinib / ICP-022	Irreversible	Innocare	NDA (2L) P3 (1L)	NDA (2L)	Ph2 (2L)	Ph2 (2L)	P1 (combo, 2L)	Ph2 (2L)	Ph2 (2L)
DTRMWXHS- 12	-	DTRM	-	Ph1 (2L)	-	=	-	-	-
CT-1530	Irreversible	Centaurus	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	-
SHR1459	-	Hengrui	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	Ph1 (2L)	-

Source: chinadrugtrials.org.cn, insight, CMBIS

Figure 6: Adverse events of special interest

Index	Orelabrutinib	Zanubrutinib	Acalabrutinib	Ibrutinib
index	N=200	N=671	N=612	N=1,124
Major bleeding	0.5%	2.7%	2.0%	3.0%
Atrial fibrillation (Grade 3 or Grade 4)	0.0%	0.6%	1.0%	4.0%
Hypertension (Grade 3 or Grade 4)	2.5%	3.1%	2.5%	5.0%
Infection (>=Grade 3)	16.0%	21.3%	18.0%	24.0%
Secondary malignancy	0.5%	7.9%	10.6%	10.0%
Diarrhea	7.0%	18.2%	38.4%	39.0%

Source: Companies data, CMBIS

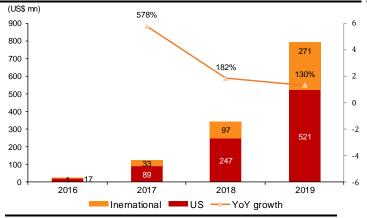
Figure 7: Comparison of BTK inhibitors' clinical trial data on CLL/SLL

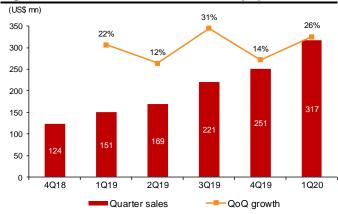
	Orelabrutinib	Ibrutinib	Acalabrutinib	Zanubrutinib
Source	2019 ASH	2019 ASCO	2019 EHA	2019 ICML
Trial ID	ICP-CL-00103/ NCT03493217	RESONATE (PCYC- 1112)/ NCT01578707	ACE-CL-309 (ASCEND)/ NCT02970318	BGB-3111-205/ NCT03206918
Indication	r/r CLL/SLL	r/r CLL/SLL	r/r CLL	r/r CLL/SLL
N (patients on BTK)	80	195	155	91
Phase	1/11	III	III	II
Line of treatment	≥2L	≥2L	≥2L	≥2L
Regimen	150mg BID	420mg QD	100mg BID	160mg BID
Median follow-up	8.7m	65.3m	16.1m	15.1m
ORR	88.8% (2008 IWCLL)	88.0% (2008 IWCLL)	81.0% (2008 IWCLL)	84.6% (2008 IWCLL, 2014 Lugano)
CR	3.8%	11.0%	-	3.3%
PR	85.0%	77.0%	-	81.3%
SD	5.0%	-	-	4.4%
DCR	93.8%	-	-	89.0%
PFS	-	44.1m	NR	NR
os	-	67.7m	12m-OS: 94% vs 91%	-
Discontinue due to AEs	3.8%	16%	11%	8.8%
Common AEs	The most common AE: thrombocytopenia, neutropenia, anemia, respiratory system infections, and purpura The most common SAE: neutropenia, thrombocytopenia, lung infection	The most common AE (>20%): diarrhea, fatigue, pyrexia, and nausea The most common SAE: neutropenia, pneumoni, Atrial fibrillation, Pyrexia	The most common AE: headache (22%), neutropenia (19%), diarrhea (18%), anemia (15%), and cough (15%) The most common SAE: neutropenia (16%), anemia (12%), and pneumonia (5%); with rituximab/idelalisib, neutropenia (40%) and diarrhea (24%)	The most common AE: decrease (68.1%), upper respiratory tract infection (45.1%), purpura (34.1%), and platelet count decreased (33.0%) The most common SAE: neutrophil count decrease (44.0%), lung infection (9.9%), upper respiratory tract infection (9.9%), platelet count decrease (8.8%), and anemia (8.8%)

Source: Companies data, ASH, ASCO, EHA, ICML, CMBIS



Figure 8: Global sales trend for Venetoclax (2016-2018) Figure 9: Global sales of Venetoclax by quarter





Source: Abbvie, CMBIS Source: Abbvie, CMBIS

Figure 10: Key pipeline of Ascentage

Candidate	Mechanism	Lead Indications	Preclinical	Ph I	Ph II	Cou	ntries
HQP1351	BCR-ABL mutant	Resistant CML				pivotal phase II	China NDA Submitte
	KIT	GIST					China
		CLL/SLL				China	U.S. & Australia
APG-2575	Bcl-2 Selective	WM				U.	S. & Australia
APG-2575 Bc APG-1252 Bc APG-115 Mi		AML					China
APG-1252 B	D-1-2/D-1I	SCLC/NSCLC				China	U.S. & Australia
	Bcl-2/Bcl-xL	NSCLC (Combo)					China
ADC 115	MDM2 a52	Solid tumors(IO combo)				China China U.S. & Australia China China U.S. & Australia China China China China	China & U.S.
APG-113	MDM2-p53	AML				(China Submitted China J.S. & Australia . & Australia China J.S. & Australia China U.S. & Australia China ina & U.S. inina & U.S. China ina & U.S. China China China
ADC 1207	IAP Dimer	Solid tumors(IO combo)				(China & U.S.
APG-1387	TAP Dimer	Hepatitis B					China
AT-101	Bcl-2/Bcl-xL/Mcl-1	CLL				(China & U.S.
APG-2449	FAK/ALK/ROS1	NSCLC					China
HQP8361	c-Met selective	Cancer (c-Met+)					China
Bcl-2 related	Strategic relationsh	ip with Unity to develop sen	olytic drugs.				U.S.

Source: Company data, CMBIS



Financial Summary

Income statement						Cash flow summary					
	FY18A I	EV10.A	EVONE	EV21E	EV22E	YE 31 Dec (RMB mn)	EV10A	FY19A	EVONE	FY21E	FY22E
YE 31 Dec (RMB mn) Revenue	7 T TOA	15	7	7	152	` ,	(347)		(729)	(794)	(822
License fee income	0	11	0	0	0	Depreciation & amortization, etc.	18	26	24	63	102
Provision of R&D services	7	4	7	7	7	Change in working capital	27	15	(13)	03	(30
Cost of sales	0	-	0	0	(46)	Tax paid	0	0	(13)	0	(30
	7	(2) 12	7	7	106	Others	64	980	16	48	84
Gross profit	,	12	′	′	100	Net cash from operating	(238)	(460)	(702)	48 (684)	(666
Other income	61	49	19	19	19	rict oddir from operating	(200)	(400)	(102)	(00-1)	(000
Selling & distribution expenses	0	0	0	0	(76)						
Milestone payment	0	0	0	(20)	(20)	Capex	(48)	(77)	(400)	(450)	(100
Administrative expenses	(90)	(162)	(139)	(153)	(168)	(Purchases of)/proceeds from	376	20	0	0	((
DOD synances	(250)	(464)	(600)	(600)	(600)	retrieval of other financial assets, net	(25)	(4.42)	0	0	,
R&D expenses	(250)	(464)	(600)	(600)	(600)	Other investing activities Net cash from investing	(35)	(143)	0 (400)	0 (450)	(100)
Operating profit	(272)	(564)	(713)	(747)	(739)	Net cash from investing	293	(201)	(400)	(450)	(100
Other expenses	(38)	(914)	0	0	0	Net proceeds from shares issued	911	432	0	0	(
Finance costs, net	(37)	(4)	(16)	(48)	(84)	Bank borrowing	35	50	600	1,000	800
Pre-tax profit	(347) ((1,482)	(729)	(794)	(822)	Capital repurchase	(76)	0	0	0	(
•	` , ,	,	` ,	` ,	` ,	Interests paid	(2)	(4)	(16)	(48)	(84
Income tax	2	2	0	0	0	Net cash from financing	860	442	584	952	716
Minority interests	0	0	0	0	0	_					
Net profit (Net loss)	(345) ((1,481)	(729)	(794)	(822)	FX changes	27	1	0	0	(
	, , ,			•	, ,	Net change in cash	915	(219)	(517)	(182)	(50
						Cash at the beginning of the year	15	957	882	365	183
						Cash at the end of the year	957	739	365	183	133
YE 31 Dec (RMB mn)	FY18A I	EV40A	EVONE	EVO4E	EVANE	Key ratios YE 31 Dec	EV40A	FY19A	EVANE	EV24E	EVANE
Non-current assets	239	296		1,059		Sales mix (%)	FIIOA	FIIJA	FIZUE	FIZIE	FIZZE
PP&E	27	94	484	886	897	License fee income	1	73	0	0	(
Righ-of-use assets	40	49	404	31	22	Provision of R&D services	99	73 27	100	100	5
Other intangible assets	75	72	66	61	56	Total	100	100	100	100	5
Goodwill	25	25	25	25	25	Profit & loss ratios (%)	100	100	100	100	•
Equity investment measured at FVTPL	_	32	32	32	32	Gross margin	100	86	100	100	70
			25			EBITDA margin					N/A
Other non-current assets	12	25	25	25	25	Pre-tax margin	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A
Current accets	990	909	392	210	107	Net margin	N/A	N/A N/A		N/A	N/A
Current assets	990	909	0		197	Effective tax rate (%)	0	1N/A	N/A 0	1N/A	11/7-
Inventories Trade receivables	0	0	0	0	13 25	Effective tax rate (%)	U	U	U	U	,
	19	27	27	27	27	Balance sheet ratios					
Prepayments, other receivables	_					Current ratio (x)	0	1	0	0	(
Other financial assets Cash and bank balances	14 957	0 882	0 365	0 183	0 133	` '	9 N/A	4 N/A	0 N/A	0 N/A	N/A
Cash and bank balances	957	002	305	103	133	Trade payables turnover days	N/A	N/A N/A	N/A	N/A	N/A
Current liabilities	105	202	700	1 700	2 506						
Current liabilities Bank loans	105 38	202 92	789 692	-		Net debt to total equity ratio (%) Total debt to asset ratio (%)	N/A 182	N/A 26	N/A 85	N/A 150	N/A 216
Trade payables	38 5	13	092	1,692	2,492	ו טומו עבטו וט מסטבו ומווט (%)	102	20	65	150	210
Other payables and accruals	63	97	97	97	97	Returns (%)					
Contract liabilities	03	0	0	0	97	ROE	N/A	N/A	N/A	N/A	
Contract nabilities	U	U	U	U	U	ROA	N/A N/A	N/A N/A	N/A N/A	N/A N/A	(1)
Non-current liabilities	2,136	113	113	113	113						(-
Bank loans	4	9	9	9	9	Per share data					
Deferred tax liabilities	19	17	17	17	17	EPS (RMB)	N/A	(12.69)	(3.49)	(3.80)	(3.94
Convertible redeemable preferred shares	2,076	0	0	0	0	DPS (RMB)	0.00	0.00	0.00	0.00	0.00
	Λ	Ω	Ω	Ω	Ω	BVPS (RMB)	N/A	Net	1 61	7 27	11.34
Others	37	86	86	86	86	DVI O (INVID)	11/7	INGL	1.01	1.21	11.0
		890	162		• • •						
•	_				-						
			162	(033)	(1,455)						
Other non-current liabilities	(1,012) 0 (1,012)	890 0 890		(633) 0	0 86 (1,455) 0 (1,455)	BVPS (RMB)	N/A	Net	1.61	7.27	

Source: Company data, CMBIS estimates



Disclosures & Disclaimers

Analyst Certification

The research analyst who is primary responsible for the content of this research report, in whole or in part, certifies that with respect to the securities or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about the subject securities or issuer; and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific views expressed by that analyst in this report.

Besides, the analyst confirms that neither the analyst nor his/her associates (as defined in the code of conduct issued by The Hong Kong Securities and Futures Commission) (1) have dealt in or traded in the stock(s) covered in this research report within 30 calendar days prior to the date of issue of this report; (2) will deal in or trade in the stock(s) covered in this research report 3 business days after the date of issue of this report; (3) serve as an officer of any of the Hong Kong listed companies covered in this report; and (4) have any financial interests in the Hong Kong listed companies covered in this report.

Disclaimer

CMBIS or its affiliate(s) have investment banking relationship with the issuers covered in this report in preceding 12 months.

CMBIS Ratings

BUY

Stock with potential return of over 15% over next 12 months

SELL

Stock with potential return of +15% to -10% over next 12 months

Stock with potential loss of over 10% over next 12 months

NOT RATED : Stock is not rated by CMBIS

OUTPERFORM : Industry expected to outperform the relevant broad market benchmark over next 12 months

MARKET-PERFORM : Industry expected to perform in-line with the relevant broad market benchmark over next 12 months

UNDERPERFORM : Industry expected to underperform the relevant broad market benchmark over next 12 months

CMB International Securities Limited

Address: 45/F, Champion Tower, 3 Garden Road, Hong Kong, Tel: (852) 3900 0888 Fax: (852) 3900 0800

CMB International Securities Limited ("CMBIS") is a wholly owned subsidiary of CMB International Capital Corporation Limited (a wholly owned subsidiary of China Merchants Bank)

Important Disclosures

There are risks involved in transacting in any securities. The information contained in this report may not be suitable for the purposes of all investors. CMBIS does not provide individually tailored investment advice. This report has been prepared without regard to the individual investment objectives, financial position or special requirements. Past performance has no indication of future performance, and actual events may differ materially from that which is contained in the report. The value of, and returns from, any investments are uncertain and are not guaranteed and may fluctuate as a result of their dependence on the performance of underlying assets or other variable market factors. CMBIS recommends that investors should independently evaluate particular investments and strategies, and encourages investors to consult with a professional financial advisor in order to make their own investment decisions.

This report or any information contained herein, have been prepared by the CMBIS, solely for the purpose of supplying information to the clients of CMBIS and/or its affiliate(s) to whom it is distributed. This report is not and should not be construed as an offer or solicitation to buy or sell any security or any interest in securities or enter into any transaction. Neither CMBIS nor any of its affiliates, shareholders, agents, consultants, directors, officers or employees shall be liable for any loss, damage or expense whatsoever, whether direct or consequential, incurred in relying on the information contained in this report. Anyone making use of the information contained in this report does so entirely at their own risk.

The information and contents contained in this report are based on the analyses and interpretations of information believed to be publicly available and reliable. CMBIS has exerted every effort in its capacity to ensure, but not to guarantee, their accuracy, completeness, timeliness or correctness. CMBIS provides the information, advices and forecasts on an "AS IS" basis. The information and contents are subject to change without notice. CMBIS may issue other publications having information and/ or conclusions different from this report. These publications reflect different assumption, point-of-view and analytical methods when compiling. CMBIS may make investment decisions or take proprietary positions that are inconsistent with the recommendations or views in this report

CMBIS may have a position, make markets or act as principal or engage in transactions in securities of companies referred to in this report for itself and/or on behalf of its clients from time to time. Investors should assume that CMBIS does or seeks to have investment banking or other business relationships with the companies in this report. As a result, recipients should be aware that CMBIS may have a conflict of interest that could affect the objectivity of this report and CMBIS will not assume any responsibility in respect thereof. This report is for the use of intended recipients only and this publication, may not be reproduced, reprinted, sold, redistributed or published in whole or in part for any purpose without prior written consent of CMBIS. Additional information on recommended securities is available upon request.

For recipients of this document in the United Kingdom

This report has been provided only to persons (I)falling within Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended from time to time) ("The Order") or (II) are persons falling within Article 49(2) (a) to (d) ("High Net Worth Companies, Unincorporated Associations, etc...) of the Order, and may not be provided to any other person without the prior written consent of CMBIS.

For recipients of this document in the United States

This report is intended for distribution in the United States to "major US institutional investors", as defined in Rule 15a-6 under the US, Securities Exchange Act of 1934, and may not be furnished to any other person in the United States. Each major US, institutional investor that receives a copy of this research report by its acceptance hereof represents and agrees that it shall not distribute or provide this research report to any other person.

For recipients of this document in Singapore

This report is distributed in Singapore by CMBI (Singapore) Pte. Limited (CMBISG) (Company Regn. No. 201731928D), an Exempt Financial Adviser as defined in the Financial Advisers Act (Cap. 110) of Singapore and regulated by the Monetary Authority of Singapore. CMBISG may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, as defined in the Securities and Futures Act (Cap. 289) of Singapore, CMBISG accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact CMBISG at +65 6350 4400 for matters arising from, or in connection with the report.