

Company Report

I-Mab (IMAB US)

Mixed CD73 data in ASCO, more data to reveal by YE22E

- In ASCO 2022, Co. presented a mixed data readout of its CD73 mAb uliledlimab across cohorts from an ongoing Ph2 China study
- The results showed positive efficacy signals in treatment-naïve NSCLC pts while lower response to heavily treated pts
- We think Co.'s MoA-differentiated pipeline will provide unique opportunity to add alpha. Maintain BUY with TP cut to USD72

A mixed ph2 data readout of uliledlimab in ASCO 2022

The early data of uliledlimab (ULI) in ASCO 2022 is from an ongoing ph1/2 trial (n=221, NCT04322006), which evaluated safety and efficacy of ULI in combination with toripalimab (TOR) for advanced solid tumor. As of data cut-off on Mar 29, 2022, out of 48 efficacy evaluable NSCLC (mainly stage 4 disease) patients (pts) across three cohorts, cohort #3 (19 treatment-naïve pts) showed 5 PR (26% ORR) and 9 SD (73.7% DCR), while cohort #1 & #2 with heavily treated pts (who failed SoC or SoC+ICI) showed a lower clinical response with 1PR and 12 SD. Safety profile remained sound with no dose limiting toxicities observed in both monotherapy and combination therapy. Co. highlighted the results showed a potential correlation between high tumoral expression of CD73 (≥35% expression level) and the observed clinical response, which CD73 could potentially be a novel predictive biomarker. Co. expects more maturing ph2 data on cohort #3 (efficacy and biomarker) by YE22 and plans to start ph3 trial in 2023 with a companion diagnostic kit. We think ULI's early data was largely in line with our expectation and thus maintain our projection on ULI (RMB2.3bn risk adj. global peak sales and 15% PoS). We think its upcoming ph2 data updates on cohort #3 by YE22E should shed more lights on its prospects.

Major catalysts in 2022-23E

1) lemzoparlimab (CD47): a) data update from the ongoing ph1 combo study w/ aCD20 for nHL in 22E; b) preliminary data readout from combo study w/ αPD-1 in the U.S for solid tumor in 22E; c) full data analysis from combo study with AZA in China for MDS in 22E; d) Initiation of 1-2 registrational trials in China in 22E; 2) uliledlimab (CD73): a) more ph2 data on cohort #3 by YE22E; b) initiation of ph2 combo study w/ aPD-1 in the U.S for non-NSCLC solid tumors in 22E, and ph3 trial for NSCLC in China in 23E.

Maintain BUY, SOTP-based TP revised down to USD72

We cut SOTP-based TP from USD106 to USD72 as we applied higher WACC (from 10.0% to 12.3%) to reflect broad-based risk-on sentiment and valuation reset weighing on biotech sector (IBB index down 33% from 52wk high). But we retain a 20% equity premium to reflect its greater BD potential. Investment risks: clinical delay/failure, lower-thanexpected sales, regulatory risks, NRDL-driven price cut risk.

RMB mn	2019	2020	2021E	2022E	2023E
Revenue	30	1,543	520	650	1,075
yoy growth	-44%	5042%	-66%	25%	65%
Adjusted net profit	(1,085)	964	(577)	(690)	(570)
yoy growth	n.a.	n.a.	n.a.	n.a.	n.a.

Sources: Company data, CMS (HK) estimates

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WHAT'S NEW

Company updates, TP revision

Previous	BUY
Price (May 27, 2022)	USD8.3
12-month Target Price (Potential up/downside)	USD72 (+767%)
Previous	USD106



Sources: Bloomberg	
Pharmaceutical & Healthcare	
NASDAQ (May 27, 2022)	12,131
IBB (May 27, 2022)	119.5
Key Data	
52-week range (USD)	8.1-85.4
Market cap (USD mn)	683
Avg. daily traded value (USD mn)	20.1
BVPADS (USD)	8.4
Shareholding Structure	
Management	22.1%
C-Bridge entities	15.5%
Hillhouse	8.7%
T. Rowe Price	6.6%
GIC	5.7%
Tasly	5.3%
Genexine	4.5%
Free float	31.6%

Sources: Company data, Bloomberg

Related Research

- 1. I-Mab (IMAB US) A safety concern on CD47 drug class may
- be easing (BUY) (April 19, 2022)

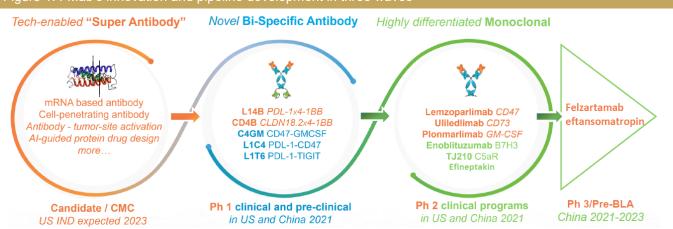
 2. I-Mab (IMAB US) R&D pipeline progress remains on track (BUY) (February 22, 2022)

 3. I-Mab (IMAB US) – Positive lemzoparlimab combo data in nHL
- at ASH21 (BUY) (December 15, 2021)
- HMab (IMAB US) Continuously unlock value through collaboration deals (BUY) (December 1, 2021)

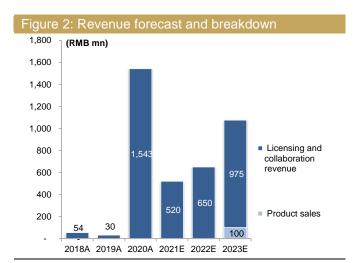


Focus charts

Figure 1: I-Mab's innovation and pipeline development in three waves



Source: Company data



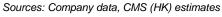


Figure 3: rNAV per share breakdown (USD) 90 ¬ Bull case 81.0 80 80 Tota **TP 72** 70 70 TJM2 (GM-CSF) TJ301 (IL-6) 0.1 60 TJD5 5.0 0.3 BD 50 50 13.6 TJ107 Enoblituzumab 11.9 (B7-H3) (IL-7) 40 0.2 case 45.7 30 (CD38) TJ101 2.8 20 20 (GH) 10 10 6.5 0 Net BD Total Bull/

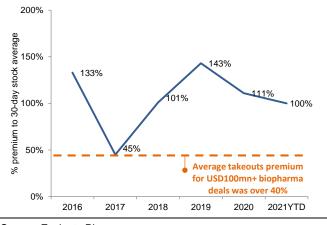
Sources: Company data, CMS (HK) estimates

Figure 4: Catalyst calendar

Candidates	Target	Indication	22-24E Milestone / Event		Timeline	Achieved
		NHL (+rituximab)	Topline data readout	Data	2022E	
Lemzoparlimab (TJC4)	CD47	Solid tumor (+pembro)	Preliminary data readout	Data	2022E	
-	AML/MDS	Topline data readout	Data	2022E		
		Solid tumor (+toripali)	More data on ph2 cohort #3	Data	YE22E	
Uliledlimab (TJD5)	CD73	Solid tumor (+pembro)	Ph2 study initiation (US)	Study	2022E	
Solid	Solid tumor (+PDX)	Ph3 study initiation (China)	Study	2023E		
		3L MM	Topline data readout	Data	2022E	
Felzartamab (TJ202)	CD38	3L MM	BLA filing	Reg.	2022E	
		2L MM (+lenalidomide)	BLA filing	Reg.	2023E	
Eftansomatropin (TJ101)	rhGH	PGHD	BLA filing	Reg.	2023/24E	

Sources: Company data, CMS (HK) estimates

Figure 5: The mean percentage premium to 30-day average of USD100mn+ biopharma buyouts



Source: Evaluate Pharma



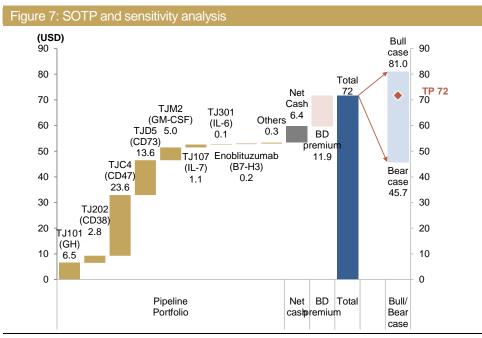
Valuation Summary

We arrived at our SOTP-based TP using a risk adjusted NPV (rNPV) approach w WACC at 12.3% (prior 10.0%), with sensitivities on the peak sales and the probability of success (PoS) of various molecules. We detail below our assumption and valuation results.

(RMB mn)	Target	R&D Status*	Partner	Major Indication	Launch date	Adj. Peak sales	PoS**	Rights	rNPV (Previous)	rNPV (Revised)	∆ (% chg)
Pipeline valuation (rNPV)									30,971	20,211	-35%
Lemzoparlimab (TJC4)	CD47	P2 (CH), P2 (U.S.)	AbbVie/(MorphoSys)	AML/MDS/nHL/Solid tumors	2025	6,432	60%(CH), 60%(U.S.)	CH(100%) / WW(R***)	3,674	2,458	-33%
Uliledlimab (TJD5)	CD73	P2 (CH), P2 (U.S.)	(Roche)/(Junshi)	Solid tumors (w/ PD-1/L1 combo)	2026	2,285	15%(CH), 15%(U.S.)	WW (100%)	1,617	1,061	-34%
Eftansomatropin Alfa (TJ101)	Long-acting rhGH	Reg	Genexine	PGHD	2024	1,453	90%	CH(100%)	12,908	8,959	-31%
Felzartamab (TJ202) +/- CD47(TJC4)	CD-38 mAb	Reg	MorphoSys	Multiple myeloma (3L, 2L and 1L)	2023	652	90%	CH(100%)	8,664	5,144	-41%
Plonmarlimab (TJM2)	GM-CSF mAb	P2		CRS (severe COVID-19, CAR-T)	2023	827	40%	WW(100%)	3,023	1,894	-37%
Efineptakin Alfa (TJ107)	IL-7 Long-acting	P2	Genexine	Lymphopenia/CPI booster	2025	315	40%	CH(100%)	665	430	-35%
Olamkicept (TJ301)	IL-6 inhibitor	P2	Ferring	Ulcerative Colitis (UC)	2026	37	20%	CH(100%)	80	51	-36%
Enoblituzumab	B7-H3 mAb	P2	MacroGenics	Solid tumors	2026	83	10%	CH(100%)	140	88	-37%
Others (C5aR mAb, BsAbs, etc.)									201	127	-37%
Net cash									2,438	2,438	0%
Valuation (RMB mn)									33,409	22,649	-32%
No of shares (mn)									134	134	0%
Valuation per share (RMB)									249	169	-32%
Valuation per ADR share (USD) (10	ADS:23common shares;	6.5RMB/USD)		x					88	60	-32%
BD premium									20%	20%	0 рр
TP (USD)									106	72	-32%

Sources: Company data, CMS (HK) estimates, Notes:* represents trial location, **represents the highest PoS of indication of the molecule, ****"R" represents "royalties"





Source: Company data, CMS (HK) estimates

Figure 8: WACC assumption	
Cost of equity (%)	
Risk free rate (%)	3.0
Beta	1.1
Equity risk premium (%)	8.8
CAPM unleveraged discount rate	12.7
Cost of debt (%)	
Average spread over risk-free rate (%)	8.0
Pre-tax cost of debt (%)	11.0
Average corporate tax rate for company (%)	15.0
Post-tax cost of debt (%)	9.4
Estimated target gearing (net debt/EV) (%)	10.0
WACC (%)	12.3

Source: CMS (HK) estimates



Investment risks

Clinical failure of core clinical assets

Company may encounter clinical development setbacks of its in-house developed or in-licensed drug candidates. Potential clinical failure may adversely affect company's business and financial prospects.

Worse-than-expected commercial launches

The actual market penetration and market share of Company's drug candidates might be smaller than expected. These may be due to lower-than-expected acceptance from physicians, patients or payers. Potential setbacks in commercialization process may adversely affect Company's business and financial prospects.

Pricing uncertainty in future China NRDL negotiations

Company may encounter pricing risks in the future China NRDL negotiations. China commercial healthcare insurance industry is still in its infancy while the government payers play a dominant role in setting reimbursement policies. A lower-than-expected pricing or less favorable reimbursement policy may adversely affect Company's business and financial prospects.

Geopolitical uncertainty

Company may encounter geopolitical risks when conducting international trades, collaborations or other commercial activities. Setbacks in these activities may adversely affect Company's business and financial prospects.



Financial Summary

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RMB mn	2019	2020	2021E	2022E	2023E
Non-current assets	376	990	982	974	965
PP&E	30	25	28	30	31
Intangible assets	149	120	119	117	116
Prepaid lease payments	16	15	6	(3)	(12)
Goodwill	163	163	163	163	163
Interests in JV/Asso	-	665	665	665	665
Others	18	2	2	2	2
Current assets	1,361	5,344	4,274	2,892	1,435
Inventories	-	-	-	-	2
Loan and account receivables	-	130	-	-	23
Prepayments and other receivables	136	423	423	423	423
Others	32	32	32	32	32
Short-term investments	56	-	-	-	-
Bank balances and cash	1,137	4,759	3,820	2,438	955
Total assets	1,738	6,334	5,256	3,866	2,399
Current liabilities	588	576	576	576	579
Trade and bills payables	-	-	-	-	3
Other payables	7	8	8	8	8
Due to a related party	274	561	561	561	561
ST bank debt	50	-	-	-	-
Others	258	8	8	8	8
Non-current liabilities	80	131	131	131	131
Long-term payables	68	-	-	-	-
Contract liabilities	-	-	-	-	-
LT bank loans	-	-	-	-	-
Others	11	131	131	131	131
Shareholders' funds	1,069	5,627	4,550	3,160	1,690
Minorities	-	-	-	-	-
Total liability and equity	1,738	6,334	5,256	3,866	2,399

Cashflow Statement

Cashilow Statement					
RMB mn	2019	2020	2021E	2022E	2023E
Operating cash flow	(868)	434	(1,024)	(1,448)	(1,522)
Pretax profit	(1,441)	471	(1,077)	(1,390)	(1,470)
Operating profit before WC chg	(1,067)	674	(1,155)	(1,448)	(1,500)
Net working capital change	199	(241)	130	-	(22)
Income tax paid	-	-	-	-	_
Interest paid	-	-	-	-	-
Investing cash flow	212	(202)	85	66	39
Purchase of PPE	(12)	(8)	(10)	(10)	(10)
Purchase/disposal of subsidiaries	-	-	-	-	-
Purchase/disposal of JV&Asso.	-	-	-	-	-
Interest received	-	-	95	76	49
Others	225	(194)	-	-	-
Financing cash flow	153	3,440	-	-	-
Proceeds from IPO net of fees	184	3,481	-	-	-
Issurance of equity shares	-	-	-	-	-
Bank borrowings, net	(31)	(50)	-	-	-
Others	-	-		-	_
Beginning cash	1,681	1,193	4,759	3,820	2,438
Forex	15	(107)	-	-	-
End cash	1,193	4,759	3,820	2,438	955

Profit & Loss

RMB mn	2019	2020	2021E	2022E	2023E
Consolidated revenue	30	1,543	520	650	1,075
Cost of goods sold	-	_	-	-	(20)
Gross profit	30	1,543	520	650	1,055
(–) Total SG&A expense	(655)	(402)	(412)	(453)	(494)
Administrative expenses	(655)	(402)	(402)	(423)	(444)
Selling and distribution costs	-	-	(10)	(30)	(50)
(–) R&D expense	(840)	(985)	(1,280)	(1,664)	(2,080)
(+/-) Other income/expense	-	-	-	-	-
(+/-) Profit from JV&Asso.	-	-	-	-	-
Adj. EBITDA	(1,082)	672	(655)	(748)	(600)
Stock-Based Compensation	(367)	(493)	(500)	(700)	(900)
Total Depreciation and amortisation	(16)	(23)	(18)	(18)	(19)
Adj. EBIT	(1,098)	649	(673)	(767)	(619)
(+/-) Finance expense - net	28	23	95	76	49
(+/-) Others, net	(4)	304	-	-	-
Profit before tax	(1,441)	483	(1,077)	(1,390)	(1,470)
(–) Tax	-	(12)	-	-	-
Net Profit	(1,441)	471	(1,077)	(1,390)	(1,470)
(+/-) Minority interest	-	-	-	-	-
Attributable net profit	(1,441)	471	(1,077)	(1,390)	(1,470)
Adjusted net profit	(1,085)	964	(577)	(690)	(570)
EPS Fully diluted (USD)	(47.8)	2.3	(1.4)	(1.8)	(1.5)

Financial Ratios

	2019	2020	2021E	2022E	2023E
Growth					
Consolidated revenue	(44%)	5,042%	(66%)	25%	65%
Gross profit	n.a.	5,042%	(66%)	25%	62%
Adjusted net profit	n.a.	n.a.	n.a.	n.a.	n.a
Profitability					
Gross margin	100%	100%	100%	100%	98%
Adj. net profit margin	n.a.	n.a.	n.a.	n.a.	n.a
ROE	n.a.	n.a.	n.a.	n.a.	n.a
ROA	n.a.	n.a.	n.a.	n.a.	n.a
Efficiency					
Inventory days	n.a.	n.a.	n.a.	n.a.	n.a
Accounts receivable days	n.a.	n.a.	n.a.	n.a.	n.a
Accounts payable days	n.a.	n.a.	n.a.	n.a.	n.a
Cash cycle days	n.a.	n.a.	n.a.	n.a.	n.a
Liquidity					
FCF (RMB mn)	(880)	426	(1,034)	(1,458)	(1,532)
Net gearing (%)	(107)	(85)	(84)	(77)	(57)

Sources: Company data, CMS (HK) estimates



Investment Ratings

Industry Rating	Definition
OVERWEIGHT	Expect sector to outperform the market over the next 12 months
NEUTRAL	Expect sector to perform in-line with the market over the next 12 months
UNDERWEIGHT	Expect sector to underperform the market over the next 12 months

Company Rating	Definition
BUY	Expect stock to generate 10%+ return over the next 12 months
NEUTRAL	Expect stock to generate +10% to -10% over the next 12 months
SELL	Expect stock to generate loss of 10%+ over the next 12 months

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