

NeuroVive Pharmaceutical

Rights issue

Pharma & biotech

SEK124m rights issue underway 80% guaranteed

On 10 December 2018, NeuroVive announced a rights issue (subject to EGM approval) aiming to raise up to SEK123.8m gross at a price of SEK1.35 per share, of which 80% (SEK99m) is guaranteed. Our model suggests this would cover operating costs for 2019 and into 2020, if the total amount is raised. NeuroVive outlined a number of operational goals achievable during this period, while potential share price catalysts include KL1333 Phase Ib initial results, the start of the NeuroSTAT Phase II clinical trial and the planned out-licensing of NV556. Our updated valuation is SEK1.51bn or SEK9.2/share, which includes the guaranteed amount of the rights issue.

Year end	Revenue (SEKm)	PBT* (SEKm)	EPS* (SEK)	DPS (SEK)	P/E (x)	Yield (%)
12/16	0.0	(70.7)	(1.7)	0.0	N/A	N/A
12/17	0.6	(70.1)	(1.5)	0.0	N/A	N/A
12/18e	1.5	(69.7)	(1.0)	0.0	N/A	N/A
12/19e	1.5	(133.0)	(1.1)	0.0	N/A	N/A

Note: *PBT and EPS are normalised, excluding amortisation of acquired intangibles, exceptional items and share-based payments.

Financed to KL1333 Phase la/b trial readout

The proceeds from the planned rights issue will be used to advance the clinical and preclinical programmes, with one of the key trials being the Phase Ia/b study testing KL1333 for mitochondrial diseases. KL1333, a small molecule NAD+ modulator, was tested in healthy volunteers in a Phase | trial (single ascending dose) by the licensor Yungjin Pharm in South Korea, which found the compound safe, with a favourable PK profile. NeuroVive recently received the green light from regulatory authorities to proceed with its own Phase I trial (single and multiple ascending doses), which will include healthy volunteers and patients. We therefore believe the likelihood of confirming the safety profile has increased, but additional interesting insights could be obtained from patient data. Results are expected in H219.

NeuroSTAT Phase II trial to start in 2019

With the new funds, NeuroVive will also initiate the Phase II trial with NeuroSTAT for a proof-of-concept study in traumatic brain injury (TBI) where there is no specific, approved therapeutic treatment. Additional funding will be required to complete the trial, which management indicated could be done via non-dilutive funding or a partnership. Out-licensing common disease preclinical assets in the non-core portfolio, especially NV556 (NASH), is another potential catalyst and a source of cash. Our recently published <u>outlook report</u> describes the ongoing R&D programmes in detail.

Valuation: SEK1.51bn or SEK9.2/share

Our updated, risk-adjusted NPV valuation of NeuroVive is SEK1.51bn or SEK9.2/share compared to SEK1.64bn or SEK17.9/share previously. The positive effect of increased cash from the guaranteed part of the proposed rights issue was offset by revising parts of the R&D programme, where we moved the trial initiations from 2018 to 2019. The decrease in valuation per share is mostly technical adjustment after including the guaranteed part of the rights issue.

17 December 2018

Price SEK1.36

Market cap SEK125m

Net cash (SEKm) at 30 September 2018 38.4

Shares in issue (does not include potential new 91.7m shares in the

91.7m

SEK8.83/US\$

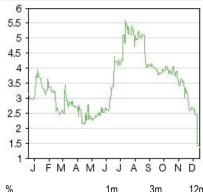
ongoing rights issue)

Free float 95%
Code NVP

Primary exchange NASDAQ Stockholm

Secondary exchange OTCQX

Share price performance



%	1m	3m	12m
Abs	(54.6)	(65.1)	(54.0)
Rel (local)	(53.7)	(61.1)	(51.2)
52-week high/low	9	SEK5.6	SEK1.4

Business description

NeuroVive Pharmaceutical is a Swedish biopharmaceutical company with deep expertise in mitochondrial medicine. It has a diversified portfolio in terms of indications and employs a dual strategy: it develops a core portfolio of assets for orphan diseases and seeks to out-license proprietary products for non-orphan indications. NeuroSTAT (neurotrauma, Phase IIb ready) and KL1333 (genetic mitochondrial diseases) are the most advanced assets.

Next events

Start of Phase Ib with KL1333 (MAD EU)
Initiation of NeuroSTAT Phase IIb

2019

H119

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Financials

The rights issue could raise up to SEK123.8m gross at a price of SEK1.35 per share and is structured in a similar way to the last issue in April 2018, in that a large portion (80%) of the amount is guaranteed (equal to SEK99m gross) by existing and external investors. NeuroVive plans to issue a total of 91,697,076 shares (the same amount as the current number of outstanding shares). Therefore, the maximum dilution for non-participating shareholders is 50%. The subscription period ends on 6 February 2019 and the outcome will be announced on 11 February 2019.

With its Q318 results, NeuroVive reported Q318 R&D expenses of SEK11.2m (vs SEK9.8m in Q317) and personnel expenses of SEK3.2m (vs SEK3.0m in Q317). R&D costs were somewhat lower than our expectations, but we believe this is mainly related to timing for the initiations of clinical trials for KL1333 and NeuroSTAT, which are now planned after the rights issue. Our estimates for 2019 are therefore largely unchanged. As of end-September Q318, cash was SEK38.4m.

Valuation

Our updated, risk-adjusted NPV valuation of NeuroVive is SEK1.51bn or SEK9.2 per share compared to SEK1.64bn or SEK17.9 per share previously. We include an estimated net guaranteed amount of SEK93m in our model which, when added to estimated end-2018 cash, is SEK125m. We have also updated our R&D model assumptions, mainly focusing on timelines to reflect listed management goals for 2019, together with the rights issue. To maintain realistic timelines, we have added one year of development to our estimated project timelines which, on an absolute basis, had an offsetting effect after including 80% of the rights issue in our valuation. The significant decrease in valuation per share is mainly a technical adjustment, reflecting the increased number of shares outstanding (we currently include the guaranteed new shares only, ie 73,357,661). For our valuation, we currently use 165m shares.

Exhibit 1: 2	019 milestones				
	H119	H219			
KL1333	Initiate Phase la/b study	Top-line data expectedPrepare for Phase II study			
NeuroSTAT	 Secure non-dilutive financing for Phase II study IND application Initiate Phase II study 	 Secure non-dilutive financing for Phase II study IND application Initiate Phase II study 			
NVP015	 Further preclinical studies including in vivo dose-response, toxicology 	 Further preclinical studies including in vivo dose-response, toxicology 			
NV556	Out-licensing activities for NASH				
NVP024	Candidate selection				
NVP025	Candidate selection				
NVP022	 Preclinical dose-response studies in NASH disease model 				
Rights issue	 17 January EGM 23 January subscription period starts 6 February subscription period ends 11 February announcement of the outcome of the rights issue 				

Source: NeuroVive Q318 report, NeuroVive rights issue press release, Edison Investment Research. Note: **Bold** indicates key catalysts (efficacy data, marketing authorisation).

We maintain all other R&D assumptions described in our recent <u>outlook note</u> and <u>initiation report</u>. As previously, in our valuation we include clinical-stage NeuroSTAT (TBI) and KL1333 (genetic mitochondrial disorders), and the advanced preclinical products. We continue to exclude NVP025 (mitochondrial myopathy) and NVP022 (NASH) for the time being as both are at an early stage.



Product	Launch	Peak sales*	NPV	NPV/share	Probability	rNPV	rNPV/share
		(\$m)	(\$m)	(\$)		(\$m)	(\$)
NeuroSTAT	2025	454	278.0	1.7	15%	31.7	0.2
KL1333	2024	574	573.6	3.5	10%	53.1	0.3
NVP015	2025	875	683.0	4.1	5%	27.3	0.2
NV556	2027	1,716	182.0	1.1	8%	38.4	0.2
NVP024	2029	702	29.7	0.2	3%	6.8	0.0
Net cash est-Q418 + 80% of the planned rights issue + exercised warrants			14.1	0.1	100%	14.1	0.1
Valuation			1,760.5	10.7		171.4	1.0
			SEKm	SEK		SEKm	SEK
NeuroSTAT			2,455.1	14.9	15%	280.0	1.7
KL1333			5,064.6	30.7	10%	469.1	2.8
NVP015			6,031.2	36.5	5%	240.7	1.5
NV556			1,607.4	9.7	8%	339.0	2.1
NVP024			262.5	1.6	3%	60.0	0.4
Net cash est end-Q418 + 80% of the planned rights issue + exercised warrants			124.7	0.8	100%	124.7	3.0
Valuation			15,545.5	94.2		1,513.5	9.2



SEK'000s	2016	2017	2018e	2019
December	IFRS	IFRS	IFRS	IFR
PROFIT & LOSS				
Revenue	14	585	1,500	1,50
Cost of Sales	0	0	0	
Gross Profit	14	585	1,500	1,50
Research and development	(12,000)	(27,926)	(40,560)	(103,243
EBITDA	(69,868)	(67,897)	(69,310)	(132,815
Operating Profit (before amort. and except.)	(70,989)	(69,492)	(69,452)	(132,968
Intangible Amortisation	0	0	0	
Exceptionals	(1,121)	(1,595)	(1,942)	
Other	0	56	0	
Operating Profit	(72,110)	(71,031)	(71,394)	(132,968
Net Interest	265	(571)	(200)	
Profit Before Tax (norm)	(70,724)	(70,063)	(69,652)	(132,968
Profit Before Tax (reported)	(71,845)	(71,602)	(71,594)	(132,968
Tax	0	Ó	0	•
Profit After Tax (norm)	(70,724)	(70,007)	(69,652)	(132,968
Profit After Tax (reported)	(70,240)	(66,727)	(67,594)	(128,968
Average Number of Shares Outstanding (m)	42.0	50.2	72.0	128.
EPS - normalised (SEK)				
EPS - normalised (SEK)	(1.72) (1.72)	(1.49)	(1.02)	(1.07 (1.07
EPS - reported (SEK)	. , ,	. ,	(0.94)	,
Dividend per share (SEK)	(1.67) 0.0	(1.33)	0.94)	(1.00
· · ·		0.0		0.
Gross Margin (%)	100.0	100.0	100.0	100.
EBITDA Margin (%)	N/A	N/A	N/A	N/
Operating Margin (before GW and except.) (%)	N/A	N/A	N/A	N/
BALANCE SHEET				
Fixed Assets	84,645	87,579	87,579	87,57
Intangible Assets	71,151	74,315	74,315	74,31
Tangible Assets	274	162	162	16
Investments	13,220	13,102	13,102	13,10
Current Assets	94,901	30,560	32,757	1,56
Stocks	0	0	0	1,00
Debtors	0	0	0	
Cash	93,251	28,992	31,189	
Other	1,650	1,568	1,568	1,56
Current Liabilities	(12,413)	(14,259)	(14,259)	(14,259
Creditors	(12,413)	(14,259)	(14,259)	(14,259
Short term borrowings	0	0	0	(17,200
Long Term Liabilities	0	0	0	(8,635
Long term borrowings	0	0	0	(8,635
Other long term liabilities	0	0	0	(0,000
Net Assets	167,133	103,880	106,077	66,25
	107,100	100,000	100,011	00,20
CASH FLOW	()	(== ===)	/= / a=a\	
Operating Cash Flow	(57,614)	(58,039)	(71,252)	(132,815
Net Interest	237	(84)	(200)	
Tax	0	0	0	
Capex	(139)	(40)	(141)	(107
Acquisitions/disposals*	0	(11,035)	0	
Financing	77,332	9,031	73,790	93,09
Other	(23,227)	(4,092)	0	
Dividends	0	0	0	
Net Cash Flow	(3,411)	(64,259)	2,197	(39,824
Opening net debt/(cash)	(96,662)	(93,251)	(28,992)	(31,189
HP finance leases initiated	0	0	0	
Other	0	0	0	
Closing net debt/(cash)	(93,251)	(28,992)	(31,189)	8,63



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