

Agios Pharmaceuticals (AGIO)

\$43.21 (As of 04/16/20)

Price Target (6-12 Months): **\$47.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 02/18/19)

Prior Recommendation: Underperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

3-Hold

Zacks Style Scores:

VGM:F

Value: F

Growth: F

Momentum: B

Summary

Agios's first wholly owned precision medicine Tibsovo has been performing steadily since its launch and driving growth. The drug's label expansion studies are also advancing well with the FDA granting a nod in the first-line setting in 2019. Moreover, Tibsovo is under review in the EU wherein a tentative approval will further boost growth. Agios' progress with its pipeline looks impressive too. Its collaboration with Celgene looks lucrative as the latter provides with regular funds/royalties from Idhifa sales. However, Agios' heavy dependence on Celgene for royalties remains a constant worry. Stiff competition is another matter of concern for the company. Shares have outperformed the industry in the year so far. Loss estimates look stable ahead of Q1 earnings. Agios has a mixed record of earnings surprises in recent quarters.

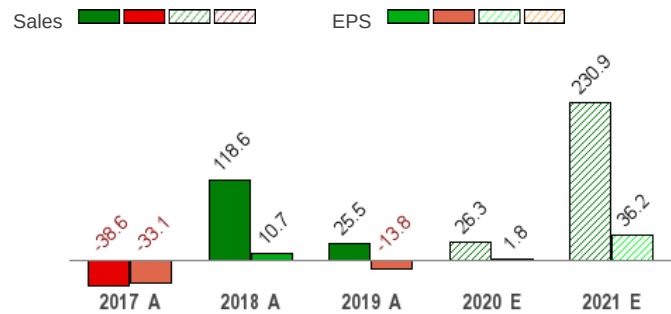
Price, Consensus & Surprise



Data Overview

52 Week High-Low	\$59.53 - \$27.77
20 Day Average Volume (sh)	631,759
Market Cap	\$3.0 B
YTD Price Change	-9.5%
Beta	2.22
Dividend / Div Yld	\$0.00 / 0.0%
Industry	Medical - Products
Zacks Industry Rank	Top 18% (45 out of 253)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	10.1%
Last Sales Surprise	14.0%
EPS F1 Est- 4 week change	0.0%
Expected Report Date	04/30/2020
Earnings ESP	0.0%
P/E TTM	NA
P/E F1	NA
PEG F1	NA
P/S TTM	25.1

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	38 E	41 E	74 E	99 E	493 E
2020	31 E	36 E	39 E	43 E	149 E
2019	30 A	26 A	26 A	35 A	118 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	-\$1.60 E	-\$1.70 E	-\$1.25 E	-\$1.05 E	-\$4.30 E
2020	-\$1.70 E	-\$1.73 E	-\$1.70 E	-\$1.80 E	-\$6.74 E
2019	-\$1.59 A	-\$1.87 A	-\$1.81 A	-\$1.60 A	-\$6.86 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 04/16/2020. The reports text is as of 04/17/2020.

Overview

Cambridge, MA-based Agios Pharmaceuticals, Inc. is a development-stage biopharmaceutical company focused on development of treatments for cancer and rare genetic metabolic disorders, a subset of orphan genetic metabolic diseases.

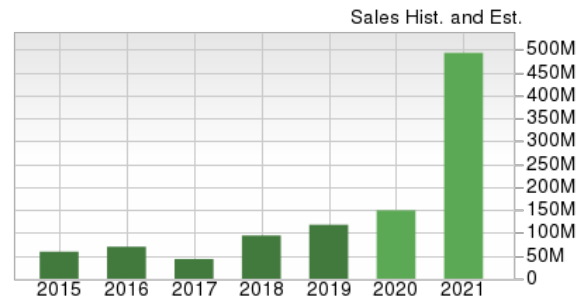
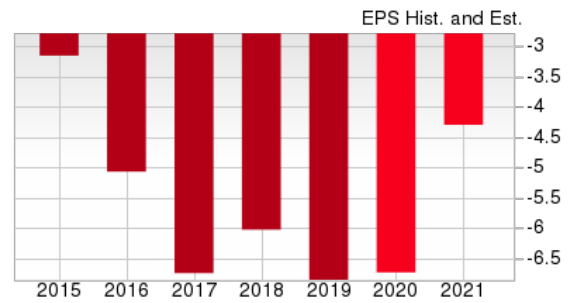
In July 2018, Agios' wholly owned product Tibsovo, an IDHm inhibitor, received FDA approval for R/R AML with a susceptible IDH1 mutation as detected by an FDA-approved test. The candidate is also under review in the EU for the same indication. Last June, Agios out-licensed rights to market Tibsovo in China to CStone Pharmaceuticals for the given indication. Tibsovo recorded sales of 59.9 million in 2019.

Agios developed another product, Idhifa, in collaboration with partner Celgene Corporation, a wholly owned subsidiary of Bristol-Myers Squibb Company. In August 2017, the FDA granted Celgene an approval for Idhifa to treat adult patients with relapsed or refractory acute myeloid leukemia (R/R AML) and an isocitrate dehydrogenase 2 or IDH2, mutation. Idhifa is owned by Celgene while Agios is entitled to receive royalties on the drug's net sales.

IDH1 and IDH2 mutations are found in a wide range of hematological malignancies and solid tumors including AML, chondrosarcoma and cholangiocarcinoma where both the treatment options and prognosis for patients are poor.

Agios' other pipeline candidates are vorasidenib, AG-270 and AG-636 being developed for various cancer indications.

In 2019, the company generated \$117.9 million in total revenues, reflecting a rise of 24.9% year over year.



Reasons To Buy:

- ▲ **Shares Outperforming Industry:** Shares of Agios have outperformed its industry year to date. The stock has lost 9.5% narrower than the industry's decline of 10.7%.
- ▲ **Tibsovo Approval, a Huge Boost:** The FDA approval of Tibsovo in July 2018 offered a huge boost to the company given the immense commercial potential in the target market - AML patients with IDH-1 mutation. The FDA approval also lowered the company's heavy dependence solely on Celgene for revenues as Tibsovo is Agios' wholly owned product, which generates substantial product sales. Tibsovo contributed to around 50% of Agios' total revenues in 2019.

FDA approval of leukemia drug Tibsovo was a huge boost for Agios. The company's collaboration with Celgene is also encouraging.

The drug is also under review in the EU for the same indication with a decision expected in the second half of 2020.

- ▲ **Tibsovo Label Expansion Studies Promising:** In May 2019, Tibsovo was approved by the FDA in the first-line setting. This nod was crucial as it expands the drug's eligible patient population and should drive sales higher in the future quarters.

Meanwhile, Tibsovo is being evaluated in combination with Celgene's Vidaza for treating newly diagnosed AML patients, who are ineligible for intensive chemotherapy. Agios plans to conclude enrollment in the study by 2020. The FDA has granted a Breakthrough Therapy designation to this combo for the given indication.

Tibsovo is also being evaluated in the phase III ClarIDHy study in previously treated patients with IDH1 mutant cholangiocarcinoma also called bile-duct cancer. In May 2019, Tibsovo met the primary endpoint of this study. The company expects to file an sNDA for the above indication by the end of 2020. Meanwhile, last December, the FDA granted Breakthrough Therapy designation to Tibsovo for treating relapsed/refractory myelodysplastic syndrome (MDS) in adult patients with a susceptible IDH1 mutation.

- ▲ **Strong Pipeline:** Agios' rare genetic diseases candidate, mitapivat, is being developed for treating patients with (PK) deficiency. The company completed enrollment in two pivotal studies on mitapivat. The studies are single-arm ACTIVATE-T analyses for addressing PK deficiency in up to 40 patients, who are on regular blood transfusions, and the ACTIVATE study for treating PK deficiency in up to 80 patients with no regular blood transfusions. Agios also closed enrollment in the phase II DRIVE PK study on mitapivat in transfusion-independent adult patients with PK deficiency.

Agios' other product candidates are vorasidenib, AG-270 and AG-636. The company is currently enrolling patients in the registration-enabling phase III INDIGO study on vorasidenib for treating Grade 2 non-enhancing glioma with an IDH1 mutation. Meanwhile, AG-636 is being evaluated in a phase I dose escalation study for treating advanced lymphoma.

AG-270 is being developed in a phase I study for addressing multiple tumor types carrying methylthioadenosine phosphorylase (MTAP)-deleted tumors. Moreover, in March 2020, the FDA cleared an investigational new drug (IND) application for AG-946, a next-generation pyruvate kinase-R (PKR) activator. A phase I study on the is expected to start in mid-2020.

Successful development and potential commercialization of these candidates will drive the company's growth in the future.

- ▲ **Strong Partner in Celgene:** In May 2016, Agios and Celgene announced a new global strategic collaboration for the discovery, development and commercialization of novel therapies utilizing Agios' innovative cellular metabolism research platform. Agios is eligible to receive notable milestone payment upon achievement of certain criteria. Terms of the Celgene deal are lucrative as Agios is eligible to receive clinical, regulatory and commercial milestone payments plus royalties on net sales of products resulting under the collaboration. For 2019, Agios earned \$39.3 million from Celgene as collaboration revenues and \$10.5 million as royalties on Idhifa sales

Reasons To Sell:

▼ **Pipeline Setback:** In December 2016, company announced its decision to discontinue the development of AG-519. The decision was taken after the verbal notification of a clinical hold by the FDA, which led the company to withdraw its investigational new drug application for the candidate. The decision to discontinue the development of AG-519 was disappointing. Similar setbacks in the future will hurt the stock significantly.

Agios is highly dependent on Celgene for royalties and regular funds. Pipeline setbacks too remain a threat as well.

▼ **High Dependence on Celgene for Pipeline Progress:** The company depends heavily on Celgene for revenues, which it earns in the form of collaboration revenues and royalty revenues on Idhifa sales. The discovery phase under the 2010 agreement concluded in April 2016 hence Agios no longer receives payments from Celgene with respect to extensions of the discovery phase under the agreement. Meanwhile, in December 2019, Celgene withdrew the marketing application for Idhifa in Europe.

In September 2018, following the termination of the vorasidenib (formerly AG-881) agreement, Agios acquired the worldwide rights to vorasidenib from partner Celgene. The candidate was earlier jointly developed by the companies. Agios now needs funds to develop this candidate further.

Last Earnings Report

Agios' Q4 Loss Narrower Than Expected, Revenues Beat

Agios reported fourth-quarter 2019 loss of \$1.60 per share, narrower than the Zacks Consensus Estimate of a loss of \$1.78 but slightly wider than the year-ago loss of \$1.58.

Total revenues in the reported quarter were \$35.4 million, higher than the Zacks Consensus Estimate of \$31 million. Moreover, revenues grew 18% on a year-over-year basis. The year-over-year top-line growth is driven by a strong uptake of Tibsovo in the frontline and relapsed/refractory acute myeloid leukemia (AML) settings. The drug generated sales worth \$19.6 million in the fourth quarter, reflecting a sequential rise of 12.6%.

Royalty revenues earned from Celgene were \$3 million on Idhifa net sales in the reported quarter while collaboration revenues were \$12.9 million.

Research & development expenses rose 13.2% year over year to \$106.2 million, largely due to higher cost of late-stage clinical studies for pipeline development.

General and administrative expenses increased 9.1% year over year to \$34.8 million in the quarter on account of higher investments and personnel costs.

Agios ended the fourth quarter with cash, cash equivalents and marketable securities of \$717.8 million, lower than the sequential quarter's level of \$540.5 million. The company expects this cash balance and revenues recognized from Tibsovo as well as royalties to effectively fund its current operational plans for at least through the end of 2021.

Quarter Ending **12/2019**

Report Date	Feb 13, 2020
Sales Surprise	13.97%
EPS Surprise	10.11%
Quarterly EPS	-1.60
Annual EPS (TTM)	-6.87

Recent News

Gets Positive Opinion on Orphan Drug Tag for Mitapivat - Mar 30

Agios announced that the European Medicines Agency's (EMA) Committee for orphan medicinal products rendered a positive opinion on the application for orphan drug designation for Agios' investigational medicine mitapivat as a potential treatment for pyruvate kinase (PK) deficiency.

Update on Agreement with Celgene (now part of Bristol Myers) - Mar 25

Agios announced that it has updated its collaboration agreement with Celgene, a wholly owned subsidiary of Bristol Myers, who has now declined to exercise its option to gain right for AG-270, currently in a phase I study in combination with taxane-based therapy as a potential treatment for methylthioadenosine phosphorylase (MTAP)-deleted non-small cell lung cancer and pancreatic cancer.

Gets FDA Clearance for AG-946 - Mar 23

Agios announced that the FDA has cleared the investigational new drug (IND) application for AG-946, a next-generation pyruvate kinase-R (PKR) activator. The company plans to begin a phase I study on AG-946 in mid-2020.

Provides Strategic Vision for 2025 - Jan 12

Agios announced "Agios 2025" a six-year strategic vision. As part of this, the company expects to have four marketed medicines in its portfolio along with achieving several other milestones by the end of 2025.

Tibsovo Gets FDA's Breakthrough Therapy Tag for MDS — Dec 16

Agios announced that the FDA has granted Breakthrough Therapy designation to Tibsovo for the treatment of relapsed/refractory myelodysplastic syndrome (MDS) in adult patients with a susceptible IDH1 mutation.

Establishes Proof-of-Concept for Mitapivat — Dec 8

Agios announced that based on preliminary analysis of the phase II study on mitapivat for treating patients with non-transfusion-dependent thalassemia, clinical proof-of-concept has been established. The study is evaluating the efficacy, safety, pharmacokinetics and pharmacodynamics of treatment with mitapivat in patients with non-transfusion-dependent thalassemia (NTDT). The primary endpoint of the study is hemoglobin response.

Valuation

Agios' shares are down 9.5% in the year-to-date period and 22.8% over the trailing 12-month period. Stocks in the Zacks sub-industry and the Zacks Medical sector are down 10.7% and 6.2% in the year-to-date period, respectively. Over the past year, the Zacks sub-industry is down 0.2% while the sector is up 1.7%.

The S&P 500 index is down 13.1% in the year-to-date period and down 4.1% in the past year.

The stock is currently trading at 4.62X trailing 12-month book value, which compares to 3.01X for the Zacks sub-industry, 3.62X for the Zacks sector and 3.69X for the S&P 500 index.

Over the past five years, the stock has traded as high as 11.25X and as low as 2.90X, with a 5-year median of 5.57X. Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$47.00 price target reflects, 5.02X trailing 12-month book value.

The table below shows summary valuation data for AGIO

Valuation Multiples - AGIO					
		Stock	Sub-Industry	Sector	S&P 500
P/B TTM	Current	4.62	3.01	3.62	3.69
	5-Year High	11.25	4.3	5.05	4.55
	5-Year Low	2.9	2.21	2.9	2.84
	5-Year Median	5.57	2.77	4.29	3.64
P/S TTM	Current	23.44	3.77	2.93	3.02
	5-Year High	134.36	4.41	4.17	3.69
	5-Year Low	15.73	2.77	2.31	2.43
	5-Year Median	36.29	3.67	3.26	3.19

As of 04/16/2020

Industry Analysis Zacks Industry Rank: Top 18% (45 out of 253)



Top Peers

ASLAN Pharmaceuticals Ltd. (ASLN)	Outperform
Eli Lilly and Company (LLY)	Outperform
AbbVie Inc. (ABBV)	Neutral
AstraZeneca PLC (AZN)	Neutral
Bayer Aktiengesellschaft (BAYRY)	Neutral
Jazz Pharmaceuticals PLC (JAZZ)	Neutral
Novartis AG (NVS)	Neutral
Pfizer Inc. (PFE)	Neutral

Industry Comparison Industry: Medical - Products				Industry Peers		
	AGIO Neutral	X Industry	S&P 500	ABBV Neutral	ASLN Outperform	AZN Neutral
VGM Score	F	-	-	A	D	D
Market Cap	2.96 B	261.35 M	19.06 B	120.88 B	50.64 M	128.94 B
# of Analysts	6	2.5	14	3	3	5
Dividend Yield	0.00%	0.00%	2.26%	5.77%	0.00%	3.79%
Value Score	F	-	-	B	F	C
Cash/Price	0.21	0.10	0.06	0.34	0.58	0.05
EV/EBITDA	-6.15	0.46	11.49	12.04	NA	20.60
PEG Ratio	NA	3.21	2.09	1.79	NA	1.52
Price/Book (P/B)	3.97	3.09	2.55	NA	NA	8.83
Price/Cash Flow (P/CF)	NA	15.62	10.06	7.92	NA	15.51
P/E (F1)	NA	27.73	17.56	8.06	NA	24.13
Price/Sales (P/S)	25.11	4.72	1.94	3.63	NA	5.29
Earnings Yield	-15.60%	-0.49%	5.57%	12.41%	-34.18%	4.15%
Debt/Equity	0.17	0.10	0.70	-7.71	-30.05	1.11
Cash Flow (\$/share)	-6.90	-0.00	7.01	10.33	-1.31	3.17
Growth Score	F	-	-	B	A	D
Hist. EPS Growth (3-5 yrs)	NA%	11.68%	10.92%	21.82%	NA	-2.79%
Proj. EPS Growth (F1/F0)	1.77%	5.80%	-3.36%	13.65%	27.48%	16.34%
Curr. Cash Flow Growth	18.64%	3.86%	5.93%	8.78%	5.70%	2.12%
Hist. Cash Flow Growth (3-5 yrs)	NA%	7.73%	8.55%	19.92%	NA	-0.86%
Current Ratio	6.59	2.62	1.24	3.18	4.14	0.86
Debt/Capital	14.28%	15.61%	42.78%	NA	52.85%	52.63%
Net Margin	-348.97%	-23.31%	11.64%	23.69%	NA	5.38%
Return on Equity	-73.42%	-10.52%	16.74%	-162.54%	-167.07%	32.24%
Sales/Assets	0.15	0.57	0.54	0.51	NA	0.40
Proj. Sales Growth (F1/F0)	26.63%	0.54%	-0.14%	41.83%	290.00%	9.81%
Momentum Score	B	-	-	C	F	C
Daily Price Chg	2.37%	0.00%	-0.20%	0.05%	-8.14%	2.29%
1 Week Price Chg	6.38%	7.57%	16.01%	8.70%	23.26%	1.59%
4 Week Price Chg	31.94%	17.09%	14.56%	15.20%	69.89%	22.43%
12 Week Price Chg	-18.85%	-17.65%	-22.94%	-4.00%	-36.80%	-2.13%
52 Week Price Chg	-22.80%	-14.34%	-15.02%	5.53%	-60.60%	26.62%
20 Day Average Volume	631,759	201,118	3,220,598	12,407,541	158,148	5,567,569
(F1) EPS Est 1 week change	0.00%	0.00%	0.00%	-3.47%	0.00%	0.79%
(F1) EPS Est 4 week change	0.00%	0.00%	-7.09%	-3.47%	-4.21%	0.89%
(F1) EPS Est 12 week change	-6.14%	-5.75%	-9.32%	8.03%	11.54%	-1.93%
(Q1) EPS Est Mthly Chg	0.00%	-0.18%	-10.68%	-5.60%	-20.00%	-4.00%

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	F
Growth Score	F
Momentum Score	B
VGM Score	F

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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