Zacks Small-Cap Research

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Can-Fite Biopharma Ltd. (CANF - NYSE)

CANF: Expanding CF102 into NASH, balance sheet boosted by new financing--- Buy

Current Recommendation	**Buy**
Prior Recommendation	Hold
Date of Last Change	11/08/2015
Current Price (11/30/15)	$3.50
Target Price	**$7.50**

We maintain our Buy rating on Can-Fite shares and reiterate our price target of $7.50 per ADS.

Can-Fite's lead compounds, CF101 and CF102, are first-in-class agonists of the A_3AR receptor and have shown activity in a number of indications including rheumatoid arthritis (RA), psoriasis, and cancer. The company is set to initiate a Phase III trial with CF101 in RA in 2015 and a Phase III in psoriasis in 2016. New positive data from Phase II/III of CF101 for psoriasis has increased the probability of success in advanced study. A Phase II trial of CF102 in patients with HCC is ongoing.

The expansion of CF102 into NASH convinces us that the company's share price has enough room for further appreciation.

SUMMARY DATA

52-Week High	**$5.54**
52-Week Low	**$1.61**
One-Year Return (%)	**22.39**
Beta	**0.50**
Average Daily Volume (sh)	**1,534,958**
Shares Outstanding (mil)	**14**
Market Capitalization ($mil)	**$45**
Short Interest Ratio (days)	**0.12**
Institutional Ownership (%)	**N/A**
Insider Ownership (%)	**N/A**
Annual Cash Dividend	**$0.00**
Dividend Yield (%)	**0.00**
5-Yr. Historical Growth Rates	
Sales (%)	**N/A**
Earnings Per Share (%)	**N/A**
Dividend (%)	**N/A**
P/E using TTM EPS	**N/A**
P/E using 2015 Estimate	**N/A**
P/E using 2016 Estimate	**N/A**

Risk Level	**Above Average**
Type of Stock	**Small-Growth**
Industry	**Med-Biomed/Gene**

ZACKS ESTIMATES

Revenue
(In millions of $)

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2014	0 A	0 A	0 A	0 A	0 A
2015	0 A	0 A	0 A	0 E	0 E
2016					0 E
2017					0 E

Earnings per ADS
(Adjusted after non-recurring items)

	Q1 (Mar)	Q2 (Jun)	Q3 (Sep)	Q4 (Dec)	Year (Dec)
2014	-$0.22 A	-$0.21 A	-$0.12 A	-$0.20 A	-$0.75 A
2015	-$0.03 A	-$0.15 A	-$0.30 A	-$0.10 E	-$0.57 E
2016					-$0.60 E
2017					-$0.75 E

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WHAT'S NEW

Update on Third Quarter Financials

There was no meaningful revenue for the quarter ended September 30, 2015.

R&D expenses for 3Q15 were $0.9 million, as compared to $0.9 million for the same period of 2014. Research and developments expenses for 3Q15 comprised primarily of expenses associated with the Phase II study for CF102 as well as expenses for ongoing studies of CF101.

G&A expenses for 3Q15 were $0.5 million, as compared to $0.5 million for the same period of 2014.

Net loss for 3Q15 was $3.2 million ($0.30 per ADS), as compared to net loss of $1.1 million ($0.12 per ADS). The increase in net loss for 3Q15 was primarily attributable to an increase in finance expenses, net offset by decreases in operating expenses.

We believe earnings report at this time is a non-event for Can-Fite since the company is still a development stage biotech company. Investors focus should be on the company's balance sheet and clinical development. In this regard, we think the company has made great progress in the past quarter.

Balance Sheet Boosted by Recent Financing

As of September 30, 2015, Can-Fite had cash and cash equivalents of $14.5 million.

In September, 2015, the company closed a registered direct offering with institutional investors for gross proceeds of $9 million. In connection with the offering, the Company issued 2,068,966 registered American Depository Shares (ADSs) of Can-Fite at a purchase price of $4.35 per ADS in a registered direct offering. Additionally, for each ADS purchased by investors, the investors received an unregistered warrant to purchase one-half of an ADS. The warrants have an exercise price of $5.25 per ADS, shall be exercisable six months following the issuance date and will expire five and one-half years from the issuance date.

Further **in October, 2015**, the same institutional investors who participated in September's round have invested again in Can-Fite's registered direct offering. This time, Can-Fite will issue 1,109,196 registered American Depository Shares (ADSs) of Can-Fite at a purchase price of $4.35 per ADS in a registered direct offering. Additionally, for each ADS purchased by investors, the investors will receive an unregistered warrant to purchase 40% of an ADS. The warrants have an exercise price of $5.25 per ADS, shall be exercisable six months following the issuance date and will expire five and one-half years from the issuance date. Can-Fite received gross proceeds of approximately $4.8 million.

These two new financings not only boost Can-Fite's balance sheet immediately, but further validate its technology and clinical programs.

Current cash at hand can carry the company's operations into mid-2017 according to our financial model.

CF102 Expanded into NASH

In late November 2015, Can-Fite announced the expansion of its lead cancer drug candidate **CF102** into new indication for non-alcoholic steatohepatitis **(NASH).**

The expansion is based on the compelling pre-clinical data on CF102 in the treatment of NASH. The company recently concluded preclinical study of CF102 in liver disease. In the study, CF102 revealed its capability to improve liver pathology in a NAFLD (non-alcoholic fatty liver disease)/diabetes animal model of NASH.

In the press release issued today, the company summarized the preclinical data of CF102:

- CF102 had a statistically significant reduction in NAFLD activity score compared to placebo.
- CF102 reduced liver-to-body weight compared to placebo.
- Representative photomicrographs of H&E-stained liver sections showed improved pathology in animals receiving CF102 vs. placebo.
- CF102 decreased plasma ALT and triglycerides levels in the livers of NASH-model compared to placebo.
- Liver sections from the placebo group exhibited severe micro- and macrovesicular fat deposits, hepatocellular ballooning and inflammatory cell infiltration, whereas the CF102 treated group showed a significant decrease in steatosis, ballooning and lobular inflammation compared to the placebo group.

In prior preclinical studies, CF102 has shown efficacy in the treatment of liver regeneration and function following liver surgery.

Based on the above compelling animal data, Can-Fite is going to expand CF102 into the new indication of NASH. Can-Fite also has filed a patent for CF102 in the treatment of NASH.

Our Takeaway

We believe the expansion of CF102 into NASH represents an important milestone for Can-Fite in its clinical development.

Non-alcoholic fatty liver disease (NAFLD) is the build-up of extra fat in liver cells that is not caused by alcohol. It is normal for the liver to contain some fat. However, if more than 5% - 10% percent of the liver's weight is fat, then it is called a fatty liver (steatosis). The more severe form of NAFLD is called non-alcoholic steatohepatitis (NASH). NASH causes the liver to swell and become damaged.

NAFLD affects about 30% of adults and 10% of children in the US, among which 10-30% will develop NASH. 25-40% NASH patients will develop progressive liver fibrosis, while 20-30% NASH patients with advanced fibrosis will develop cirrhosis, which could lead to liver cancer.

NAFLD/NASH represents a multibillion-dollar market, but currently there are no FDA approved medicines for the treatment of NAFLD/NASH.

CF102 is currently being evaluated as a second-line treatment for HCC through a global **Phase II** trial. Can-Fite has received Orphan Drugs Designation for CF102 for this indication in Europe and the U.S., as well as Fast Track Status in the U.S. Data from the Phase II HCC study is expected in 2016.

The addition of NASH further expands CF102's **liver disease franchise**. The company plans to initiate a Phase II study in 3Q16.

CF102 is currently in a **Phase II** clinical trial for the treatment of **liver cancer** (hepatocellular carcinoma). CF102 has been granted **orphan drug status** and **fast track designation** for liver cancer by the US FDA. In October 2015, the European Medicines Agency (EMA) granted Orphan Drug Designation to CF102 for the indication of HCC.

Update on CF101 for Psoriasis and RA

- Can-Fite is currently preparing the protocol for its **Phase III** trial of CF101 in the treatment of **psoriasis**. Protocol design is scheduled for completion by the end of 2015.
- The company already completed the **Phase III** protocol for CF101 in the treatment of rheumatoid arthritis (RA), Can-Fite plans to submit this protocol to Institutional Review Boards (IRBs) during in the fourth quarter of 2015.

Update on Other Clinical Programs

CF101 is also being evaluated in a **Phase II** study of in patients with **glaucoma** or related syndromes of ocular hypertension in **Israel and Europe** via the company's subsidiary OphthaliX. The study is a randomized, double-masked, placebo-controlled, parallel-group study of the safety and efficacy of daily CF101 administered orally in subjects with elevated intraocular pressure (IOP). The objective of this study is to determine the safety and efficacy of oral CF101 in lowering IOP when administered twice a day for 16 weeks in subjects with elevated IOP. OphthaliX has enrolled 44 subjects in the first segment of the study, randomized in a 3:1 ratio to CF101 1.0 mg treatment to the placebo. OphthaliX is currently in the process of enrolling approximately 44 subjects to the second segment randomized in a 3:1 ratio to CF101 2.0 mg treatment to the placebo. We anticipate data to be announced in **first half of 2016**. No investigation new drug (IND) application has been filed for glaucoma as CF101 is not currently being clinically tested in the U.S. and the company has no near-term plans to do so.

CF602 is an allosteric modulator that enhances the affinity of the natural ligand, adenosine, to the A3AR. In October 2015, Can-Fite reported new findings for its CF602 drug candidate showing a defined mechanism of action in **erectile dysfunction (ED)** similar to sildenafil (Viagra®) in a rat model of diabetes mellitus. CF602 demonstrated effects on erection superior to that of Viagra in animal studies. Can-Fite plans to file an Investigational New Drug (IND) application with the FDA for CF602 in 3Q16.

Very Attractive Valuation

We recently upgraded Can-Fite shares to **Buy** with a 12-month price target of **$7.50 per share**. Our call was based on the multiple achievements the company has made in the past 6 months and the compelling valuation.

Can-Fite is a **late stage** development biopharmaceutical company focused on the development of orally available small molecule therapeutic products for the treatment of autoimmune-inflammatory, oncological, and ophthalmic diseases. The company has three lead candidates in each category: **CF101** for autoimmune disease (RA and Psoriasis), **CF102** for liver cancer, and **CF602** for glaucoma.

The most advanced candidate is CF101. Can-Fite has completed a couple of Phase II studies of CF101 for **RA** with the most recent one achieving statistically significance based on the A_3AR expression level as enrollment criteria. The company plans to initiate a **Phase III** trial of CF101 for RA late this year using the same enrollment criteria.

For **psoriasis**, Can-Fite also completed a Phase II and a Phase II/III study of CF101. The Phase II study achieved statistically significant results, but the Phase II/III failed its initial primary endpoint (PASI75 in 12 weeks). However, further analysis indicated that CF101 achieved multiple statistically significant results (PASI50, 75, 90, 100 in 32 weeks). We think the cumulative and linear improvement in CF101's efficacy over a longer period of time is a very significant finding for Can-Fite and the psoriasis treatment market. Based on the new data and the favorable safe profile, Can-Fite intends to continue the development of CF101 for the treatment of psoriasis and has initiated work on the design of the next **advanced–stage** clinical trial protocol.

We are especially encouraged by the fact that CF101 has the potential as a **first-line systemic therapy** for patients with moderate-severe psoriasis and for patients who do not want to be treated with the current systemic drugs due to safety issues. Currently there is no universally accepted first-line systemic therapy for patients diagnosed with psoriasis, and therefore CF101, an orally bioavailable drug with an excellent safety profile can be positioned for this unmet need.

For **CF102**, Can-Fite is conducting a **global Phase II** trial as a second line treatment for advanced HCC in subjects with **Child-Pugh B** cirrhosis who failed Nexavar (sorafenib) as a first line treatment. Top line data from this Phase II trial are expected to be available in mid-2016. Can-Fite's strategy to test CF102 in

HCC patients who are Child-Pugh B and have failed sorafenib is very risky, however it is warranted based on the positive preclinical data and Phase I/II data showing the drug to be both safe and effective in that cohort. The reward could be immense if the strategy pays off, as there is no current treatment option for advanced liver cancer patients. As we discussed above, Can-Fite just expanded CF102 into NASH and a Phase II clinical trial is expected to be initiated in 3Q16.

Can Fite is also developing CF101 for glaucoma with a **Phase II** trial ongoing.

The big change since our previous neutral report comes from the company's Phase II/III trial of CF101 for psoriasis. Initial results failed the primary endpoint (PASI75 in 12 weeks). However, further analysis of the data indicated that CF101 achieved multiple positive results including PASI50, 75, 90, and 100 in 32 weeks. Moreover, the PASI 90 subset analysis further suggests a higher and significant (p=0.026) CF101 response rate of 26.9% among patients previously **untreated** with systemic psoriasis therapy compared to patients pre-treated with systemic drugs. Based on the new data, we believe CF101 has the increased probability to succeed in the newly planned advanced Phase III trial which will begin in early 2016.

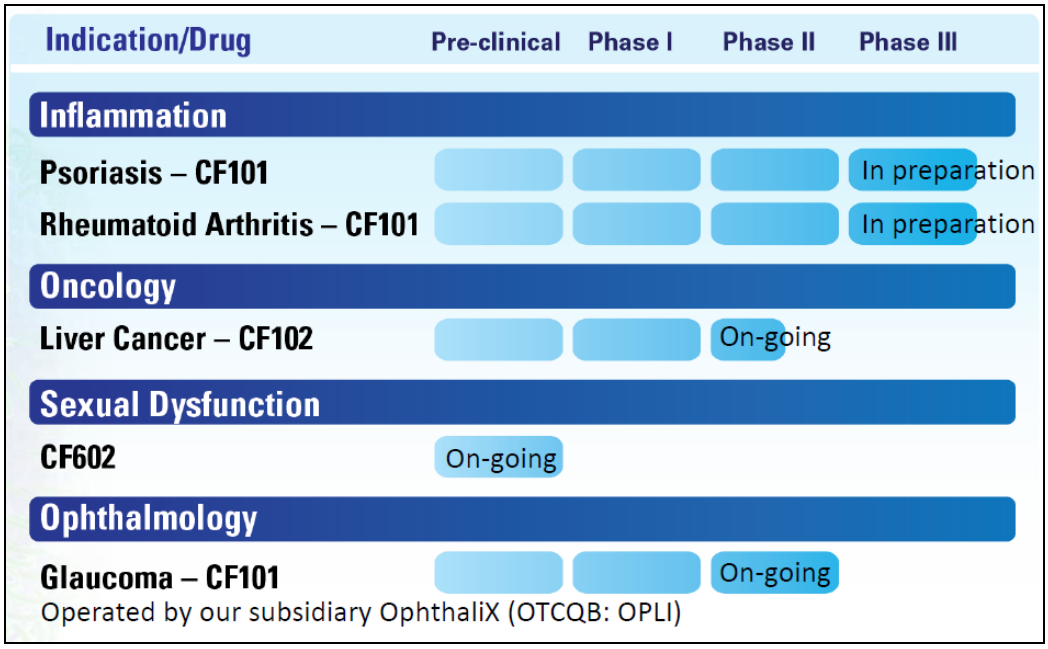
Based on the new updates, we think current market price does not reflect the intrinsic value of Can-Fite anymore.

For RA, we estimate the company will initiate the Phase III trial in late 2015, file an NDA in 2017, and receive approval in late 2018 or early 2019. For psoriasis, we estimate the company will initiate the Phase III trial in early 2016, file an NDA in late 2017 or early 2018, and get approval in late 2018 or early 2019.

For CF102, we estimate that upon completion of the Phase II trial a Phase III trial will be initiated in 2017, with an NDA filing in 2019 and approval in 2020. There is a very slim chance that the data from the Phase II trial will be good enough to request approval, however we do not see this as likely enough to include in our model.

Based on our long term financial model, Can-Fite will achieve profitability in 2020 with an earnings of $0.78 per ADS based on total revenue of $85 million. We believe a P/E multiple of 30 x is appropriate for the valuation of the company. Based on this relative valuation metric, we come up with a new price target of $7.5 per ADS using 25% discount rate for 5 years. Our price target values the company at $105 million based on 14 million ADS outstanding. This is still conservative in our view.

But keep in mind **the risks**. Our valuation assumes the final approval of the company's three lead clinical programs including RA, psoriasis and liver cancer. Any clinical/regulatory failure or delay will have a significant negative impact on the company's shares. Cash burn is also on our close watch list. As the company moves its clinical programs into advanced stage, R&D expenses will soar. Current cash balance can only last into 2017. The company will need to tap the capital market for further financing before it become cash flow positive in 2020. Any equity related financing will dilute existing shareholder base and will have negative impact on share price. But overall, the company has a favorable risk/award profile for investors with a long term investment horizon.


Indication/Drug
Pre-clinical
Phase I
Phase II
Phase III
Inflammation
Psoriasis – CF101
In preparation
Rheumatoid Arthritis – CF101
In preparation
Oncology
Liver Cancer – CF102
On-going
Sexual Dysfunction
CF602
On-going
Ophthalmology
Glaucoma – CF101
On-going
Operated by our subsidiary OphthaliX (OTCQB: OPLI)

PROJECTED FINANCIALS

Can-Fite Biopharma Ltd.	2014 A	Q1 A	Q2 A	Q3 A	Q4 E	2015 E	2016 E	2017 E	2018 E	2019 E	2020 E
CF101 (Psoriasis)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$10	$35
YOY Growth	-	-	-	-	-	-	-	-	-	-	*250%*
CF101 (RA)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15	$45
YOY Growth	-	-	-	-	-	-	-	-	-	-	*200%*
CF101 (Glaucoma)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
YOY Growth	-	-	-	-	-	-	-	-	-	-	-
CF102 (HCC)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5
YOY Growth	-	-	-	-	-	-	-	-	-	-	-
Grants & Collaborative Revenue	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
YOY Growth	-	-	-	-	-	-	-	-	-	-	-
Total Revenues	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$25**	**$85**
YOY Growth	-	-	-	-	-	-	-	-	-	-	*240%*
Cost of Sales	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5	$17
Product Gross Margin	-	-	-	-	-	-	-	-	-	*80%*	*80%*
Research & Development	$4.2	$0.6	$0.9	$0.9	$1.0	$3.4	$6.0	$8.0	$10.0	$12.0	$16.0
General & Administrative	$3.0	$0.6	$0.6	$0.5	$0.7	$2.4	$3.5	$5.0	$8.5	$15.0	$25.0
Other Expenses	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0
Operating Income	($7.1)	($1.2)	($1.5)	($1.4)	($1.7)	($5.8)	($9.5)	($13.0)	($18.5)	($7.0)	$27.0
Operating Margin	-	-	-	-	-	-	-	-	-	-	*32%*
Non-Operating Expenses (Net)	$0.6	$0.8	($0.2)	($1.8)	$0.3	($0.9)	($0.1)	($0.1)	($0.1)	($0.1)	($0.1)
Pre-Tax Income	($6.6)	($0.4)	($1.7)	($3.2)	($1.4)	($6.7)	($9.6)	($13.1)	($18.6)	($7.1)	$26.9
Income Taxes Paid	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$0.0	$9.5
Tax Rate	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*0%*	*35%*
Net Income	**($6.6)**	**($0.4)**	**($1.7)**	**($3.2)**	**($1.4)**	**($6.7)**	**($9.6)**	**($13.1)**	**($18.6)**	**($7.1)**	**$17.4**
Net Margin	-	-	-	-	-	-	-	-	-	-	*21%*
Reported EP ADR	**($0.75)**	**($0.03)**	**($0.15)**	**($0.30)**	**($0.10)**	**($0.57)**	**($0.60)**	**($0.75)**	**($0.98)**	**($0.34)**	**$0.78**
YOY Growth	-	-	-	-	-	-	-	-	-	-	-
Basic ADR Outstanding	8.77	10.93	11.64	10.73	14.00	11.82	16.00	17.50	19.00	21.00	22.50

Source: Company filings and Zacks estimates

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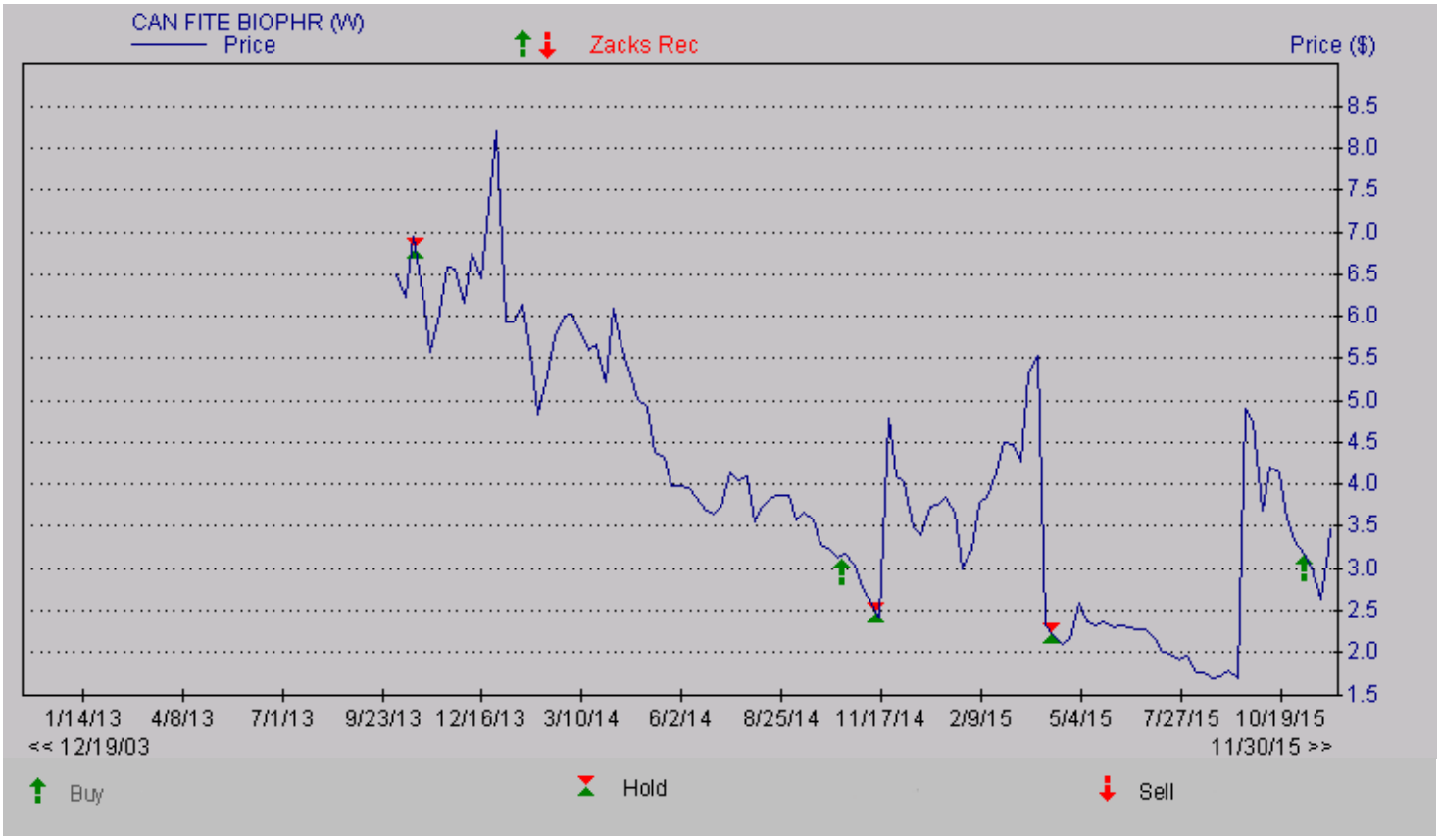

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Hold/Neutral: The analyst expects that the company will perform in line with the broader U.S. equity market over the next one to two quarters.
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