

MIRA Pharmaceuticals, Inc. (Nasdaq: MIRA)

Rating: Buy

Price Target: \$7.50

Share Price: \$2.11

Karen Sterling, PhD, CFA
ksterling@kingswoodus.com
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Company Data

Average Daily Volume (M)	5.051
52-Week Range	0.51-6.77
Shares Outstanding (M)	14.781
Market Cap (M)	31.34
Enterprise Value (M)	27.81
Total Cash (M), mrq	2.82
Total Debt (M)	0
Total Debt to Cap	0

Estimates

FYE: Dec	2023A	2024E	2025E
EPS	Q1 (0.10)	(0.12)	(0.13)
	Q2 (0.10)	(0.11)	(0.10)
	Q3 (0.26)	(0.13)	(0.10)
	Q4 (0.20)	(0.15)	(0.12)
	FY (0.64)	(0.52)	(0.44)
	NM	NM	NM
P/E	Q1 0.0	0.0	0.0
	Q2 0.0	0.0	0.0
	Q3 0.0	0.0	0.0
	Q4 0.0	0.0	0.0
	FY 0.0	0.0	0.0
	N/A	N/A	N/A

One-Year Performance Chart



Source: E*Trade.

MIRA Pharmaceuticals Files 10Q, Reports on Preclinical Progress with Ketamir-2

Second quarter 2024 earnings miss our forecast; company announces final phase of pre-IND regulatory work on Ketamir-2

MIRA Pharmaceuticals reported financial results for the second quarter ended June 30, 2024. As is typical for a preclinical-stage company, revenue was \$0, on par with our estimates. GAAP EPS of \$(0.11) missed our earnings expectations of \$(0.08), mainly due to higher-than-forecast general and administrative expenses. Common shares outstanding remained unchanged at 14,780,885.

MIRA's cash position decreased from \$4.6 million on December 31, 2023 to \$2.9 million on June 30, 2024, causing the company's current ratio to deteriorate from 8.7x to 3.7x. We note that while current cash is expected to support operations through year-end 2024, MIRA expects to generate losses for the foreseeable future and will need to secure significant external funding in the near-term to continue the development of its two preclinical assets.

We update our FY 2024 earnings estimate to \$(0.52) to account for higher than previously modelled G&A costs. We also lower our year-end 2025 price target to \$7.50, in light of the pressure MIRA is experiencing to secure additional funding by year-end, the associated likely dilution of existing shareholders, and the uncertainty around MIRA's ability to continue as a going concern.

We further note that MIRA's CEO, Erez Aminov, was named Chairman of the Board and CEO of Telomir Pharmaceuticals, following the passing of Telomir's previous CEO, Christopher

Chapman, Jr., MD. Telomir Pharmaceuticals is a preclinical-stage pharmaceutical company focused on the development and commercialization of Telomir-1 for the treatment of age-related conditions. Having Mr. Aminov dividing his time and attention between two preclinical-stage companies further increases the risk profiles of both.

Notwithstanding MIRA's financial pressures, we remain optimistic about the prospects of the company's preclinical assets.

MIRA recently revealed that Nor-Ketamir-2, the principal metabolite of its lead asset, Ketamir-2, demonstrated superior selectivity and bioavailability, as well as extended therapeutic efficacy.

A new formulation brings Nor-Ketamir-2's bioavailability close to 100%, a significant improvement over traditional ketamine's bioavailability of less than 30%. Taken together with Ketamir-2's ability to pass through the blood-brain barrier, this may allow for higher efficacy at lower doses or dosing frequencies.

The extended half-life and elevated levels of Nor-Ketamir-2 imply prolonged therapeutic effects, and the higher receptor binding site specificity of Ketamir-2 and Nor-Ketamir-2 suggest a reduced risk of adverse effects such as dissociation and hallucinations, enhancing the drug's safety profile.

If validated in clinical trials, Ketamir-2 has the potential to offer effective treatment for neurological and neuropsychiatric disorders such as depression, treatment-resistant depression, and post-traumatic stress disorder, with a more convenient oral administration route than current marketed therapies.

In pursuit of its goal to file an Investigational New Drug (IND) application by year-end, MIRA has begun IND-enabling regulatory safety studies and is progressing with Good Manufacturing Practice (GMP)-compliant drug scale-up, devising a manufacturing process that allows large-scale, low-variability synthesis. The company is also completing Chemistry, Manufacturing, and Controls (CMC) documentation for Ketamir-2.

We will revisit and potentially revise our financial forecast during the fourth quarter of 2024, once additional information is available regarding the size and scale of MIRA's upcoming financing round.

Company Description

MIRA Pharmaceuticals, Inc. is a preclinical development-stage life sciences company with two neuroscience programs targeting a broad range of neurologic diseases and neuropsychiatric disorders:

1. MIRA-55, a novel oral synthetic tetrahydrocannabinol (THC) pharmaceutical, is currently in IND-enabling studies to treat anxiety and cognitive decline typically associated with early-stage dementia in the elderly, as well as the chronic neuropathic pain frequently experienced by this patient population.
2. Ketamir-2, a novel oral ketamine analog, is under investigation to potentially deliver ultra-rapid antidepressant effects for patients suffering from major depressive disorder (MDD).

Both Ketamir-2 and MIRA-55 are classified as unscheduled drugs by the DEA and are therefore not considered controlled substances or listed chemicals.

MIRA Pharmaceuticals was incorporated in September 2020 and is headquartered in Baltimore, Maryland. The company completed its initial public offering on August 3rd, 2023, and its common stock began trading on the Nasdaq Capital Market under the symbol “MIRA.”

Risks to Our Price Target

- **High Failure Rate in Drug Development.** Conclusions based on preclinical data or early clinical trials may prove inaccurate and are not necessarily predictive of future results in later stage clinical trials. There is a high rate of failure for drug candidates proceeding through clinical trials. MIRA Pharmaceuticals’ long-term viability depends on the success of its product candidates, some or all of which may fail to receive regulatory approval.
- **Future Market Traction Remains Uncertain.** Even upon receiving FDA marketing approval, MIRA’s product candidates may fail to achieve the degree of market penetration required for commercial success. Reimbursement by third-party payors will be instrumental in gaining market traction.
- **Competition From Companies with Greater Resources.** The emerging market for synthetic cannabinoids as well as development and commercialization of drugs is and will remain competitive. For some of MIRA’s areas of therapeutic interest, various treatment options are already available, and new treatments are under development by competitors with greater financial and technical resources than MIRA’s. Achieving market traction will require superior safety and efficacy profiles compared to existing options, at competitive price points.
- **Outsourcing Clinical Development and Manufacturing Creates Vulnerabilities.** Any problems in MIRA Pharmaceuticals’ anticipated outsourcing of clinical trials and manufacturing processes and capabilities could have a material adverse effect on its business and financial condition.

- **No Patent Protection Exists for MIRA-55.** MIRA Pharmaceuticals has no issued patents relating to MIRA-55, and its patent application for MIRA-55 may not result in the issuance of such patents. This would significantly impact MIRA-55's potential competitive position and likely result in diminished market share, price levels, and third-party reimbursement.
- **Strength of Intellectual Property Remains Untested.** If the scope of MIRA's intellectual property portfolio is not broad enough, competitors could design comparable products around MIRA's technology or patent rights and hamper its ability to successfully commercialize its products. In addition, patent protection for naturally occurring compounds is difficult to obtain, defend, and enforce. Patent litigation is expensive and would siphon off limited resources.
- **Uncertain Ability to Continue as a Going Concern.** Because MIRA Pharmaceuticals is not currently generating revenue and operates at a loss, the company is dependent on the continued availability of additional financing to continue business operations. Clinical trials are expensive, time-consuming, uncertain, and susceptible to change, delay, or termination. The FDA regulatory approval process is lengthy and inherently unpredictable. MIRA's IPO proceeds should fund preclinical development and provide runway through Q4 2024, but there is no assurance that additional financing will be available on reasonable terms.
- **Ability to Maintain Nasdaq Listing Requirements in Question.** MIRA stock has seen a sharp decline from its IPO price of \$7.00 to its current price near \$2.00. In light of the need to raise additional capital, if MIRA fails to remain in compliance with the Nasdaq requirements the company's shares could be delisted. As a result, liquidity would drop, MIRA's ability to raise future rounds of external capital via equity or debt financing would be impaired, the terms and conditions of future financings could be punitive, and current shareholders might experience significant dilution.

Valuation

We arrive at our 16-month target price of \$7.50 per share using a discounted cash flow model (DCF) out to FY 2027.

Our discount rate of 60% may be reverse engineered as follows:

- Expectation of probable success rates of 24% for the MIRA-55 and Ketamir-2 assets to successfully complete clinical development through proof-of-concept (Phase 2), and 15% for additional assets to obtain FDA approval and reach the market in 2027
- We project a 2026 sale of the MIRA-55 and Ketamir-2 assets for \$600 million, based on comparable transactions of Phase Ib/Phase II assets in the CNS space, and 2027 product revenue of \$40 million, corresponding with free cash flow of \$398.2 million in 2026 and \$5.7 million in 2027

- A discount rate of 60% implies that a discount factor of 0.244 (or close to 24%) will be applied to free cash flow from year 3 (i.e. FY 2026), and a discount factor of 0.153 (or close to 15%) will be applied to free cash flow from year 4 (i.e. FY 2027)
- The year 4 discount factor is calculated as $1/(1+60\%)^4$ or $1/1.6^4$

In other words, the 60% discount rate reflects a 24% probability of 2026 forecast revenue to be realized from the sale of MIRA-55 and Ketamir-2 and a 15% probability of 2027 forecast revenue to be realized from other products. Accordingly, a 60% discount rate applies discount factors of 0.244 and 0.153, respectively, to 2026 and 2027 projected revenue.

Our key assumptions for our DCF valuation are detailed below:

1. **Product gross margin** of 86% for product revenue, per IQVIA valuation of MIRA-55 and Ketamir-2 NPV.
2. We expect **R&D expenses** to grow by 15% per year from FY 2025 onward as product candidates move toward later and more expensive stages of clinical development, additional indications are being explored, and new product candidates are added to the product portfolio.
3. We expect **SG&A expenses** to grow by 10% from FY 2025 to FY 2026, then grow to 40% of revenue from 2027 onward as MIRA scales in preparation of bringing product to market.
4. **Minimal depreciation and amortization** amounts, as MIRA Pharmaceuticals is expected to continue to outsource product development and manufacturing activities.
5. **Interest** amounts are based on anticipated use of the \$3 million line of credit available for Ketamir-2 development.
6. Applied **U.S. Federal corporate income tax rate** of 21%.
7. **Opening NOL balance** equals accumulated deficit as of 12/31/22 (from balance sheet)
8. **Net working capital** estimates anticipated capital raise of \$10.0 million in 2025 and sale of the MIRA-55 and Ketamir-2 assets for \$600 million in 2026, following Phase II proof-of-concept studies. For 2027, net working capital increase is modeled as 15% of revenue.
9. **Discount rate** of 60% reflects a 15% probability of 2027 forecast revenue to be realized.
10. **Terminal value calculation** employs an EV/TTM Revenue multiple of 5.69, calculated as the median of four comparable M&A transactions: (1) acquisition of Beacon Therapeutics by Syncona Limited (LSE:SYNC) on 10/24/2022; (2) acquisition of LogicBio Therapeutics by Alexion Pharmaceuticals on 10/3/2022; (3) acquisition of Bukwang Pharmaceutical Co. by OCI Holdings Co. on 2/22/2022; and (4) acquisition of Akciju sabiedriba Grindeks by Dashdirect Limited on 5/24/2019.
11. The 12/31/23 **cash on balance sheet** figure derives from MIRA's 10K filing.

MIRA Pharmaceuticals, Inc.					
Valuation of the firm and common equity as of 12/31/2023					
\$ (000s)	Fiscal Year Ending				
	12/31/23	12/31/24	12/31/25	12/31/26	12/31/27
Sale of Phase II Assets	0.0	0.0	0.0	600,000.0	0.0
Royalties on Sale of Assets	0.0	0.0	0.0	48,000.0	0.0
Net Product Sales	0.0	0.0	0.0	0.0	40,000.0
Revenue	0.0	0.0	0.0	552,000.0	40,000.0
Cost of Goods Sold	0.0	0.0	0.0	0.0	5,600.0
Gross Profit	0.0	0.0	0.0	552,000.0	34,400.0
% Gross Margin					86.0%
Operating Expenses					
Research & Development Expense	2,385.8	3,582.7	3,724.8	4,283.5	4,926.0
Selling, General & Administrative Expense	8,095.5	4,456.2	5,103.1	5,613.4	16,000.0
Related Party Travel Costs	453.6	0.0	0.0	0.0	0.0
Total Operating Expenses	10,934.9	8,038.9	8,827.9	9,896.9	20,926.0
EBITDA	-10,934.9	-8,038.9	-8,827.9	542,103.1	13,474.0
Depreciation and amortization	-15.0	-18.0	-21.0	-24.0	-30.0
EBIT	-10,949.9	-8,056.9	-8,848.9	542,079.1	13,444.0
Interest	1,025.3	-144.8	300.0	300.0	0.0
EBT	-11,975.2	-7,912.1	-9,148.9	541,779.1	13,444.0
TAX CALCULATIONS					
Tax rate	21%	21%	21%	21%	21%
EBT	(11,975.2)	(7,912.1)	(9,148.9)	541,779.1	13,444.0
Taxes Paid - without NOLs	0.0	0.0	0.0	113,773.6	2,823.2
NOLs Applied	0.0	0.0	0.0	37,158.4	0.0
Taxes Paid - with NOLs	0.0	0.0	0.0	105,970.3	2,823.2
New NOLs Created	(10,949.9)	(8,056.9)	(8,848.9)	0.0	0.0
NOL - Opening Balance	9,302.7	20,252.6	28,309.5	37,158.4	0.0
Increase in NOL	10,949.9	8,056.9	8,848.9	-37,158.4	0.0
NOL - Closing Balance	20,252.6	28,309.5	37,158.4	0.0	0.0
Memo Item: Taxes Paid	0.0	0.0	0.0	105,970.3	2,823.2
NET WORKING CAPITAL					
as % of Revenue				15.0%	
WC - Opening	-875.6	4,322.4	-799.5	4,701.8	44,701.8
Increase in WC	5,198.0	-5,121.9	5,501.3	40,000.0	6,000.0
WC - Closing	4,322.4	-799.5	4,701.8	44,701.8	50,701.8
Memo Item: Change in Net Working Capital	5,198.0	-5,121.9	5,501.3	40,000.0	6,000.0
CAPEX	0.0	0.0	0.0	0.0	0.0
FREE CASH FLOWS					
EBIT	-10,949.9	-8,056.9	-8,848.9	542,079.1	13,444.0
less Taxes Paid	0.0	0.0	0.0	105,970.3	2,823.2
plus Depreciation/Amortization	15.0	18.0	21.0	24.0	30.0
less Change in Net Working Capital	5,198.0	-5,121.9	5,501.3	40,000.0	6,000.0
less Capex	0.0	0.0	0.0	0.0	0.0
less Payments to Other Forms of Capital	0.0	0.0	0.0	0.0	0.0
Free Cash Flows	(16,132.9)	(2,917.0)	(14,329.2)	396,132.7	4,650.7
Memo Item: Free Cash Flow (w/out tax shield)					
PRESENT VALUE OF FREE CASH FLOWS					
Discount Rate	60.00%				
Discount Period	0.000	1.000	2.000	3.000	4.000
Discount Factor	1.000	0.625	0.391	0.244	0.153
PV (FCFs)	(16,132.9)	(1,823.1)	(5,597.3)	96,712.1	709.6
PV (FCFs)	73,868				
TERMINAL VALUE					
Terminal Value (Future Value)				227,600.0	
Terminal Value (Present Value)	34,729				
NOLs					
Future Value				0.0	
Present Value	0				
ENTERPRISE VALUE	108,597				
plus Cash on Balance Sheet	4,603				
plus Cash from Option Exercise	-				
less Debt	-				
Common Equity Value	113,200				
Common shares outstanding	14,781				
Implied common equity value per share	\$7.66				

Source: Company reports, Kingswood research estimates.

DISCLOSURES

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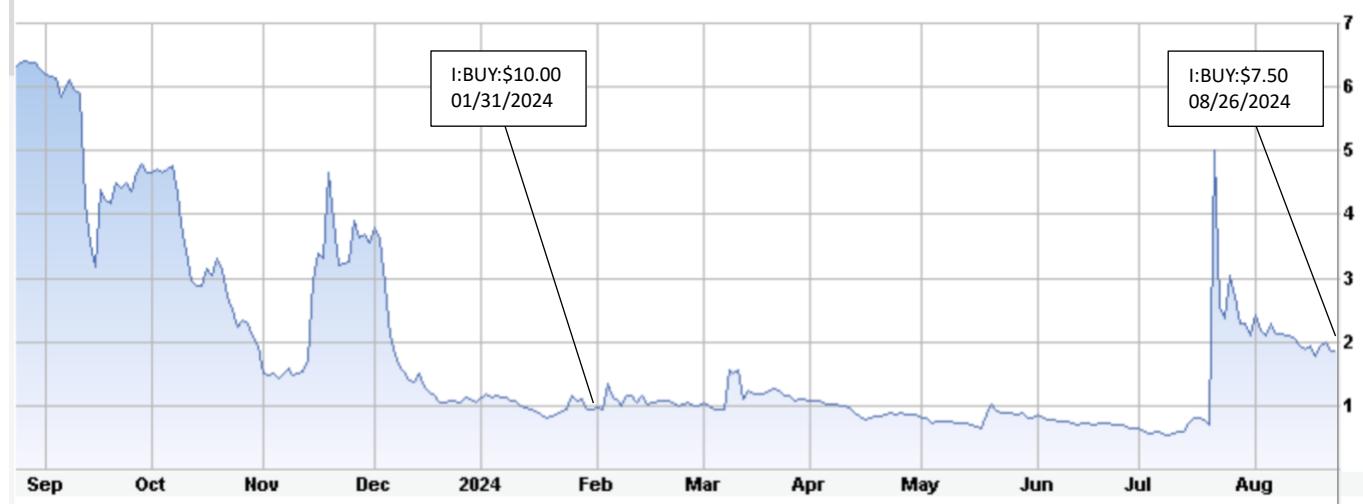
Company-Specific Disclosures

Distribution of Ratings Kingswood Capital Partners, LLC				
	Investment Banking Services/Past 12 Months			
Rating	Count	Percent	Count	Percent
BUY	3	75.00	2	66.67
HOLD	0	0.00	0	0.00
SELL	0	0.00	0	0.00
NOT RATED	1	25.00	1	100.00

As of July 2024.

In August 2023, Kingswood Investments, a division of Kingswood Capital Partners, managed MIRA Pharmaceutical's initial public offering. Kingswood received compensation from MIRA Pharmaceuticals for investment banking activity during 2023.

MIRA Pharmaceuticals Rating History as of July 23, 2024



Source: E*Trade.

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