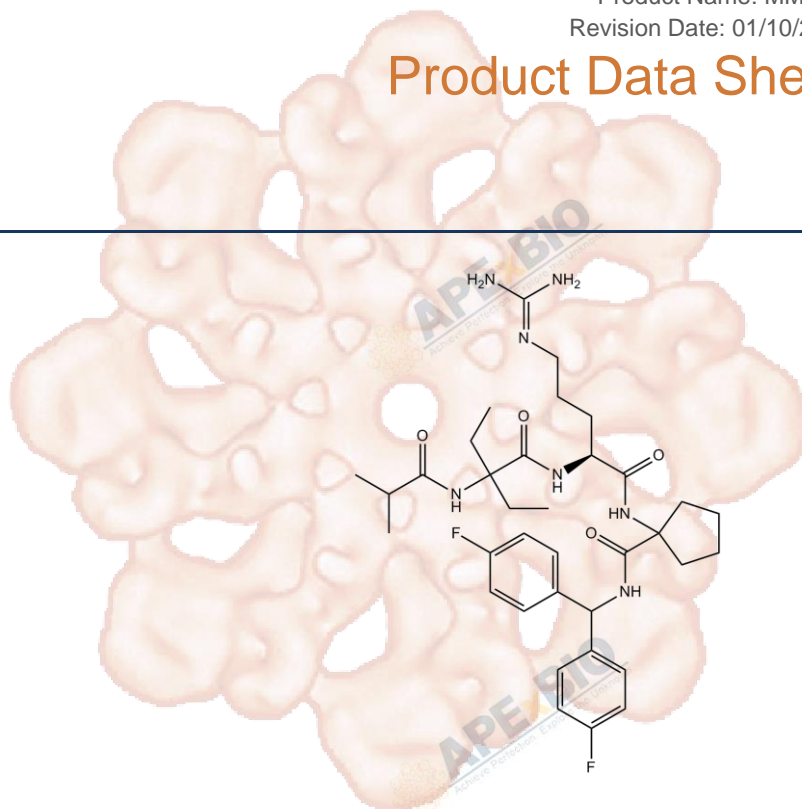


# Product Data Sheet

## MM-102

<b>Cat. No.:</b>	B1582
<b>CAS No.:</b>	1417329-24-8
<b>Formula:</b>	C <sub>35</sub> H <sub>49</sub> F <sub>2</sub> N <sub>7</sub> O <sub>4</sub>
<b>M.Wt:</b>	669.8
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Methyltransferase
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥22.6 mg/mL in EtOH; ≥67 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.4930 mL	7.4649 mL	14.9298 mL
	5 mM	0.2986 mL	1.4930 mL	2.9860 mL
	10 mM	0.1493 mL	0.7465 mL	1.4930 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

MLL1 inhibitor, high-affinity peptidomimetic

IC<sub>50</sub> & Target

0.4 μM (MLL1)

In Vitro

### Cell Viability Assay

Cell Line: MV4-11 cells, KOPN8, and K562 cells

Preparation method: The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or

		shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
	Reacting conditions:	6.25, 25, 50 µM for 4-7 days;
	Applications:	MM-102 significantly inhibited the expression of HoxA9 and Meis-1, two critical MLL1 target genes in MLL1 fusion protein mediated leukemogenesis. MM-102 (6.25, 25, 50 µM) also specifically suppressed cell growth and induced apoptosis in leukemia cells harboring MLL1 fusion proteins.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Li N, Yang L, et al. "BET bromodomain inhibitor JQ1 preferentially suppresses EBV-positive nasopharyngeal carcinoma cells partially through repressing c-Myc." Cell Death Dis. 2018 Jul 9;9(7):761.PMID:29988031

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]H. Karatas, E.C. Townsend, F. Cao, Y. Chen, D. Bernard, L. Liu, M. Lei, Y. Dou, S. Wang, High-affinity, small-molecule peptidomimetic inhibitors of MLL1/WDR5 protein-protein interaction. J Am Chem Soc 135 (2013) 669-682.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

**APExBIO Technology**

[www.apexbt.com](http://www.apexbt.com)

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)



