CP2

Catalog No.C13531 Batch:C1353103

Product Datasheet

Technical Data

Formula	$C_{92}H_{120}N_{24}O_{26}S$		
Molecular Weight	2010.15	**CAS No.**	no CAS
Solubility (25°C)*	In vitro	Water	100 mg/mL (49.74 mM)

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
1 mM	0.4975 mL	2.4874 mL	4.9748 mL
5 mM	0.0995 mL	0.4975 mL	0.9950 mL
10 mM	0.0497 mL	0.2487 mL	0.4975 mL
50 mM	-	-	-

Biological Activity

Description	CP2 is a cyclic peptide that inhibits the **JmjC histone demethylases KDM4** with IC50 values of 42 nM and 29 nM for **KDM4A** and **KDM4C**, respectively.
Targets	KDM4C [1] (Cell-free assay): 29 nM KDM4A [1] (Cell-free assay): 42 nM
In vitro	CP2 uniquely binds in the KDM4A substrate-binding pocket. It binds differently to, but competes with, histone substrates in the active site[1].

References

https://www.nature.com/articles/ncomms14773

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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