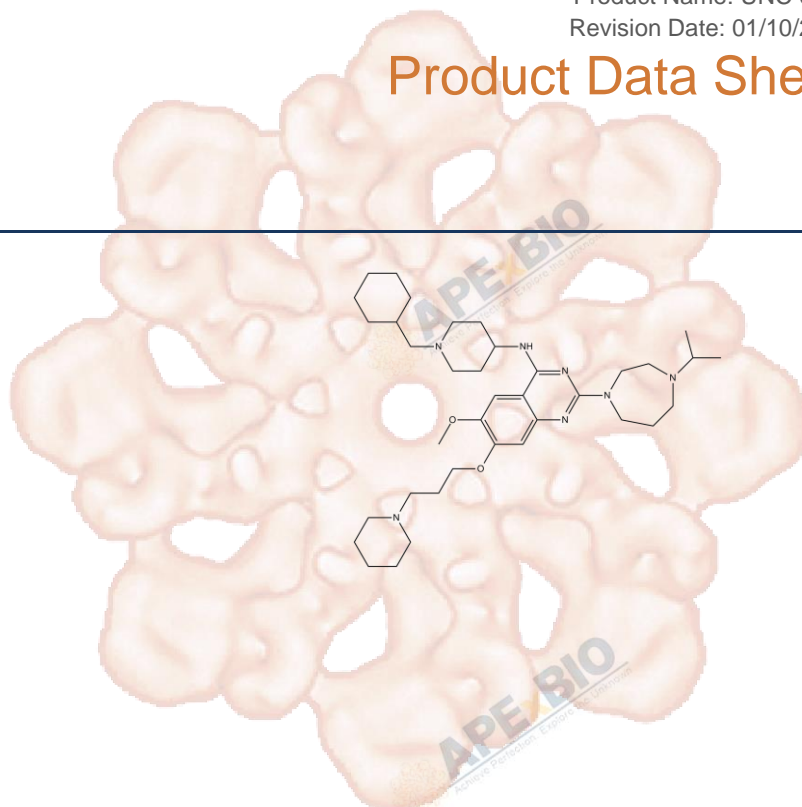


Product Data Sheet

UNC 0631

Cat. No.:	B1127
CAS No.:	1320288-19-4
Formula:	C37H61N7O2
M.Wt:	635.93
Synonyms:	
Target:	Chromatin/Epigenetics
Pathway:	Histone Methyltransferase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥ 12.66 mg/mL in EtOH with ultrasonic; ≥ 18.35 mg/mL in DMSO with gentle warming

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		1.5725 mL	7.8625 mL	15.7250 mL
	5 mM		0.3145 mL	1.5725 mL	3.1450 mL
	10 mM		0.1573 mL	0.7863 mL	1.5725 mL

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

Biological Activity

Shortsummary

G9a inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	MDA-MB-231 cells
Preparation method:	The solubility of this compound in DMSO is >18.35mg/mL. 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:	48 h

	Applications:	In MDA-MB-231 cells, UNC 0631 was highly potent in reducing H3K9me2 levels with IC50 value of 0.026 μ M and had low cell toxicity with excellent tox/function ratios. UNC 0631 had high in vitro potency versus G9a and improved lipophilicity. UNC 0631 was valuable alternative tool compound that might be more suitable for investigating specific cellular systems.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Liu F1, Barsyte-Lovejoy D, Allali-Hassani A, He Y, Herold JM, Chen X, Yates CM, Frye SV, Brown PJ, Huang J, Vedadi M, Arrowsmith CH, Jin J. Optimization of cellular activity of G9a inhibitors 7-aminoalkoxy-quinazolines. J Med Chem. 2011 Sep 8;54(17):6139-50.

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.

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