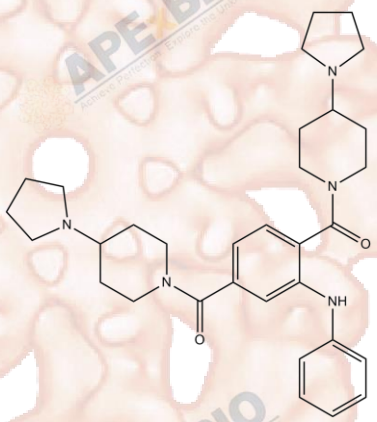
Product Data Sheet

UNC1215



Cat. No.:	A3901
CAS No.:	1415800-43-9
Formula:	C32H43N5O2
M.Wt:	529.72
Synonyms:	UNC 1215;UNC-1215
Target:	Chromatin/Epigenetics
Pathway:	Bromodomain
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

≥26.05 mg/mL in DMSO; insoluble in H2O; ≥4.94 mg/mL in EtOH with gentle warming and ultrasonic

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	1.8878 mL	9.4389 mL	18.8779 mL
5 mM	0.3776 mL	1.8878 mL	3.7756 mL
10 mM	0.1888 mL	0.9439 mL	1.8878 mL

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

Biological Activity

Shortsummary	Chemical probe for the methyllysine (Kme)
IC_{50} & Target	40 nM (Kd=120 nM) (L3MBTL3), 3.5 μM (L3MBTL3- D274A)

In Vitro

Cell Viability Assay

Cell Line:	Human embryonic kidney 293 cells transfected with a GFP fusion protein of the three MBT domains of L3MBTL3 (GFP-3MBT)
Preparation method：	The solubility of this compound in DMSO is >26.05 mg/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:	EC50: 50–100 nM
	Applications:	Treatment with UNC1215 decreased the recovery time fluorescence intensity following photobleaching in a dose-responsive manner, with the EC50 of 50–100 nM, indicating that UNC1215 promoted diffusibility of GFP-3MBT within the nucleus. UNC1215 competed with cellular factors for binding of the MBT domains at concentrations well below 1 μM. UNC1215 showed potent effects on the subnuclear localization of GFP-3MBT, with an IC50 of approximately 500 nM for disruption of foci formation.
In Vivo	**Animal experiment**	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

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.

References

[1]. James L I, Barsyte-Lovejoy D, Zhong N, et al. Discovery of a chemical probe for the L3MBTL3 methyllysine reader domain[J]. Nature chemical biology, 2013, 9(3): 184-191.

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. Shortterm 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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