Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

UNC1215

Catalog No: tcsc1646

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1415800-43-9

Formula:
$C_{32}H_{43}N_5O_2$

Pathway:
Epigenetics

Target:
Histone Methyltransferase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 270 mg/mL (509.70 mM)

Observed Molecular Weight:
529.72

Product Description

UNC1215 is a potent and selective chemical probe for the methyllysine (Kme) reading function of L3MBTL3 with Kd value of 120 nM.

IC50 Value: 120 nM (Kd) [1]

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Target: L3MBTL3

In vitro: UNC1215 binds L3MBTL3 with a K(d) of 120 nM, competitively displacing mono- or dimethyllysine-containing peptides, and is greater than 50-fold more potent toward L3MBTL3 than other members of the MBT family while also demonstrating selectivity against more than 200 other reader domains examined. X-ray crystallography identified a unique 2:2 polyvalent mode of interaction between UNC1215 and L3MBTL3. In cells, UNC1215 is nontoxic and directly binds L3MBTL3 via the Kme-binding pocket of the MBT domains. UNC1215 increases the cellular mobility of GFP-L3MBTL3 fusion proteins, and point mutants that disrupt the Kme-binding function of GFP-L3MBTL3 phenocopy the effects of UNC1215 on localization [1].