

# 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 :  $\geq 270$  mg/mL (509.70 mM)

**Observed Molecular Weight:**

529.72

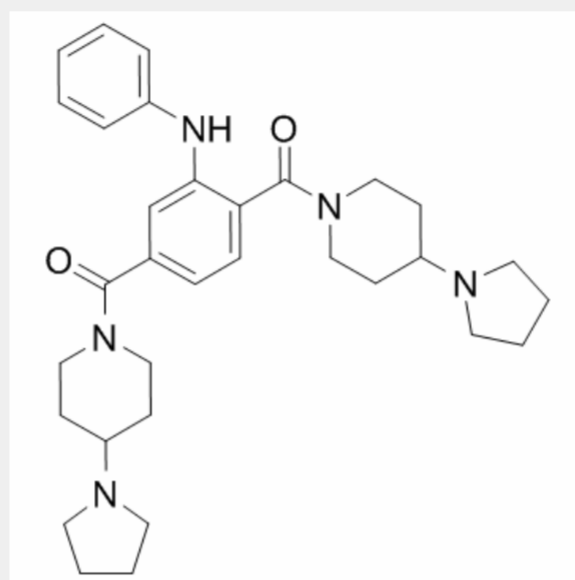
## Product Description

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]

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].



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