

Product Data Sheet

Product Name: UNC669
Cat. No.: GC18096

Chemical Properties

Cas. No. 1314241-44-5

Chemical Name (5-bromopyridin-3-yl)-(4-pyrrolidin-1-yl)piperidin-1-ylmethanone

SMILES C1CCN(C1)C2CCN(CC2)C(=O)C3=CC(=CN=C3)Br

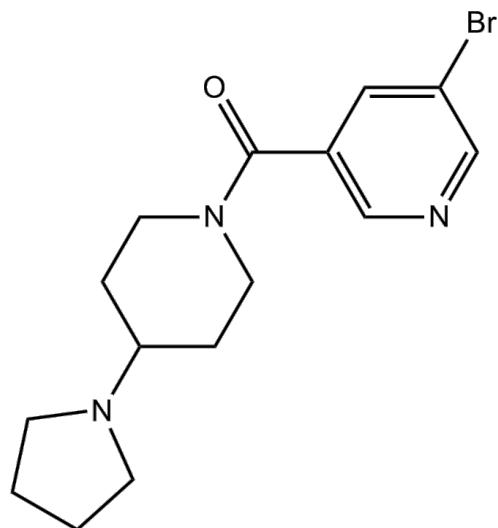
Formula $C_{15}H_{20}BrN_3O$ M.Wt 338.24

Solubility $\geq 9.35\text{mg/mL}$ in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

UNC 669 is a potent antagonist of L3MBTL1 ($\text{IC}_{50}=4.2\text{ }\mu\text{M}$) and L3MBTL3 ($\text{IC}_{50}=3.1\text{ }\mu\text{M}$).

There is less bio-data supported for UNC669. UNC1679 is an analog of UNC669. UNC1215 is the first potent and selective antagonism of a methyl-lysine reader protein, L3MBTL3, which antagonizes

Caution: Product has not been fully validated for medical applications. For research use only.

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the mono- and dimethyl-lysine reading function of L3MBTL3. [1]

Lysine methylation is a key epigenetic landmark, the dysregulation of which is related to many diseases. UNC1679 maintains in vitro and cellular potency with improved selectivity against other MBT-containing proteins. The antagonists described were also found to effectively interact with unlabeled endogenous L3MBTL3 in cells. [1]

Reference:

1. James LI, Korboukh VK, Krichevsky L et al. Small-molecule ligands of methyl-lysine binding proteins: optimization of selectivity for L3MBTL3. J Med Chem. 2013 Sep 26;56(18):7358-71. doi: 10.1021/jm400919p. Epub 2013 Sep 16.

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