

ZM223

Chemical Properties

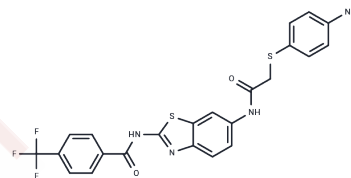
CAS No. : 2031177-48-5

Formula: C₂₃H₁₇F₃N₄O₂S₂

Molecular Weight: 502.53

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ZM223 is an inhibitor of NEDD8 activating enzyme (NAE).
Targets(IC50)	E1/E2/E3 Enzyme,NEDD8
In vitro	ZM223 (0.1-1 μ M) inhibits cell growth with IC50s of 100 and 122 nM in HCT-116 and U-2OS cancer cells, respectively. ZM223 (0.1-1 μ M) dose-dependently reduces the level of NEDD8 and accumulation of the UBC12 protein thereby reducing the subsequent NEDD8-UBC12 complex[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (159.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.57 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9899 mL	9.9497 mL	19.8993 mL
5 mM	0.398 mL	1.9899 mL	3.9799 mL
10 mM	0.199 mL	0.995 mL	1.9899 mL
50 mM	0.0398 mL	0.199 mL	0.398 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ma H, et al. Discovery of benzothiazole derivatives as novel non-sulfamide NEDD8 activating enzyme inhibitors by target-based virtual screening. Eur J Med Chem. 2017 Jun 16;133:174-183.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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