

UNC-2170

Chemical Properties

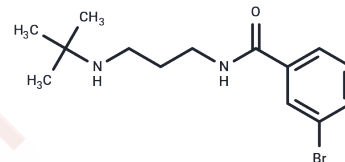
CAS No. : 1648707-58-7

Formula: C₁₄H₂₁BrN₂O

Molecular Weight: 313.23

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	UNC-2170 (UNC2170 Maleate) is the methyl-lysine binding protein, 53BP1 ligand.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	UNC-2170 (500 μM) results in a significant increase in soluble 53BP1 as compared to lysates treated with UNC2892, the negative control compound. UNC-2170 (30-100 μM; naive splenocytes cultured with LPS and IL-4 for 3.5 days) clearly phenocopies the reduction in CSR seen in 53BP1 mutant B cells[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (191.55 mM),Sonication is recommended. Methanol: 125 mg/mL (399.07 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: 2 mg/mL (6.39 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	3.1925 mL	15.9627 mL	31.9254 mL
5 mM	0.6385 mL	3.1925 mL	6.3851 mL
10 mM	0.3193 mL	1.5963 mL	3.1925 mL
50 mM	0.0639 mL	0.3193 mL	0.6385 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

Perfetti MT, Baughman BM, Dickson BM, Mu Y, Cui G, Mader P, Dong A, Norris JL, Rothbart SB, Strahl BD, Brown PJ, Janzen WP, Arrowsmith CH, Mer G, McBride KM, James LI, Frye SV. Identification of a fragment-like small molecule ligand for the methyl-lysine binding protein, 53BP1. ACS Chem Biol. 2015 Apr 17;10(4):1072-81. doi: 10.1021/cb500956g. Epub 2015 Jan 28. PubMed PMID: 25590533; PubMed Central PMCID: PMC4402254.

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