

Bromosporine

Chemical Properties

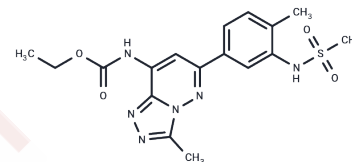
CAS No. : 1619994-69-2

Formula: C₁₇H₂₀N₆O₄S

Molecular Weight: 404.44

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	Bromosporine is a broad spectrum inhibitor for bromodomains for BRD2/4/9 and CECR2 (IC ₅₀ : 0.41/0.29/0.122/0.017 μM), respectively.
Targets(IC ₅₀)	Apoptosis,Epigenetic Reader Domain,HIV Protease,CDK
In vitro	Bromosporine (1 μM) accelerates FRAP recovery of BRD4 and CREBBP, while shows no activities against TIF1α, BAZ2A, and SMARCA2 even at 10 μM. Bromosporine (18 μM) has moderate cytotoxicity in HeLa cells.

Solubility Information

Solubility	DMSO: 55 mg/mL (135.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (6.18 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	2.4726 mL	12.3628 mL	24.7255 mL
5 mM	0.4945 mL	2.4726 mL	4.9451 mL
10 mM	0.2473 mL	1.2363 mL	2.4726 mL
50 mM	0.0495 mL	0.2473 mL	0.4945 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

15th HELLENIC SYMPOSIUM OF MEDICINAL CHEMISTRY.
Structural Genomics Consortium

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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