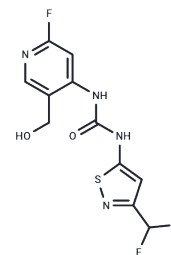


BRM/BRG1 ATP Inhibitor-1

Chemical Properties

CAS No. :	2270879-17-7
Formula:	C ₁₁ H ₉ F ₃ N ₄ O ₂ S
Molecular Weight:	318.27
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	BRM/BRG1 ATP Inhibitor-1 is an allosteric dual Brahma homolog (BRM)/SWI/SNF related matrix-associated actin-dependent regulator of chromatin subfamily A member 2 (SMARCA2) and BRG1/SMARCA4 ATPase activity inhibitor (IC ₅₀ s < 0.005 μM).
Targets(IC ₅₀)	Epigenetic Reader Domain

Solubility Information

Solubility	DMSO: 145 mg/mL (455.59 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: 5 mg/mL (15.71 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	3.142 mL	15.7099 mL	31.4199 mL
5 mM	0.6284 mL	3.142 mL	6.284 mL
10 mM	0.3142 mL	1.571 mL	3.142 mL
50 mM	0.0628 mL	0.3142 mL	0.6284 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

Papillon JPN, et al. Discovery of Orally Active Inhibitors of Brahma Homolog (BRM)/SMARCA2 ATPase Activity for the Treatment of Brahma Related Gene 1 (BRG1)/SMARCA4-Mutant Cancers. J Med Chem. 2018 Nov 21;61(22):10155-10172

Yao X, Hong J H, Nargund A M, et al. PBRM1-deficient PBAF complexes target aberrant genomic loci to activate the NF- κ B pathway in clear cell renal cell carcinoma. Nature Cell Biology. 2023: 1-13.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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