Data Sheet (Cat.No.T21767)

MS37452

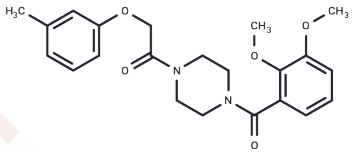
Chemical Properties

CAS No. : 423748-02-1

Formula: C22H26N2O5

Molecular Weight: 398.45

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	MS37452 is a competitive inhibitor of CBX7 chromodomain binding to H3K27me3 (Ki = 43 μM).
Targets(IC50)	Histone Methyltransferase

Solubility Information

Solubility	DMSO: 60 mg/mL (150.58 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 (5.02 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5097 mL	12.5486 mL	25.0973 mL
5 mM	0.5019 mL	2.5097 mL	5.0195 mL
10 mM	0.251 mL	1.2549 mL	2.5097 mL
50 mM	0.0502 mL	0.251 mL	0.5019 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

Chunyan Ren, et al.Small-Molecule Modulators of Methyl-Lysine Binding for the CBX7 Chromodomain.Chem Biol . 2015 Feb 19;22(2):161-8.

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