

FDI-6

Chemical Properties

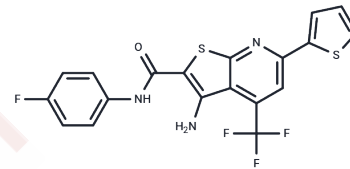
CAS No. : 313380-27-7

Formula: C₁₉H₁₁F₄N₃O₂S₂

Molecular Weight: 437.43

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	FDI-6 is an effective and selective inhibitor of FOXM1 that blocks DNA binding. FDI-6 (FDI6) binds to the FOXM1 protein and specifically downregulates FOXM1-activated genes.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	FDI-6 specifically downregulates FOXM1-activated genes with FOXM1 occupancy confirmed by CHIP-PCR. This small molecule-mediated effect is selective for FOXM1-controlled genes with no effect on genes regulated by homologous forkhead family factors.

Solubility Information

Solubility	DMSO: 50 mg/mL (114.3 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 (5.72 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	2.2861 mL	11.4304 mL	22.8608 mL
5 mM	0.4572 mL	2.2861 mL	4.5722 mL
10 mM	0.2286 mL	1.143 mL	2.2861 mL
50 mM	0.0457 mL	0.2286 mL	0.4572 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

Gormally MV., et al. Suppression of the FOXM1 transcriptional programme via novel small molecule inhibition. Nat Commun. 2014 Nov 12;5:5165.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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