

SHP2-IN-9

Chemical Properties

CAS No. :

Formula: C₂₀H₂₀FN₃O₂S

Molecular Weight: 385.46

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	SHP2-IN-9 is a potent inhibitor (IC ₅₀ = 1.174 μM) specifically targeting the SHP2 protein, displaying improved penetration across the blood-brain barrier. It exhibits a remarkable 85-fold selectivity for SHP2 over SHP1. By inhibiting SHP2-mediated cell signal transduction and impairing cancer cell proliferation, SHP2-IN-9 effectively suppresses the growth of both cervix cancer tumors and glioblastoma in vivo [1].
Targets(IC50)	Others,Phosphatase
In vitro	SHP2-IN-9 (compound 2) effectively disrupts SHP2-mediated cell signaling in various cancers (cervix cancer, human pancreatic cancer, large cell lung cancer, and mouse glioma cell) by inhibiting Paxillin phosphorylation, interfering with PI3K/AKT pathway regulation, and inhibiting cell proliferation, resulting in cell cycle arrest and early apoptosis induction [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5943 mL	12.9715 mL	25.943 mL
5 mM	0.5189 mL	2.5943 mL	5.1886 mL
10 mM	0.2594 mL	1.2972 mL	2.5943 mL
50 mM	0.0519 mL	0.2594 mL	0.5189 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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