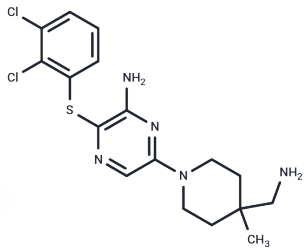
Data Sheet (Cat.No.T61891)

TargetMol

SHP2-IN-8

Chemical Properties



CAS No. : 1801692-60-3

Formula: C17H21Cl2N5S

Molecular Weight: 398.35

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-8 is a reversible, noncompetitive, selective and efficient allosteric SHP2 inhibitor (IC50=23 nM, Ki=22 nM), which also has effects in cells. SHP2-IN-8 can cause significant thermal displacement(Δ Tm = 7.01 ℃). SHP2-IN-8 can inhibit the phosphorylation of AKT and induce apoptosis of Hela cells.
Targets(IC50)	Apoptosis,Others,Akt,Phosphatase
In vitro	SHP2-IN-8 (compound TK-453), at concentrations from 0 to 100 μM over 48 hours, shows moderate inhibitory effects on KYSE-70, Hela, and THP-1 cell proliferation. At 0 to 30 μM for 24 hours, it induces dose-dependent apoptosis in Hela cells. Within 0 to 2 hours at 0 to 30 μM, SHP2-IN-8 inhibits AKT phosphorylation in Hela and KYSE-70 cells in a concentration- and time-dependent manner. These effects were confirmed using Cell Proliferation Assay, Apoptosis Analysis, and Western Blot Analysis, highlighting the compound's impact on cell growth, apoptosis, and AKT pathway inhibition in the tested cell lines [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5104 mL	12.5518 mL	25.1036 mL
5 mM	0.5021 mL	2.5104 mL	5.0207 mL
10 mM	0.251 mL	1.2552 mL	2.5104 mL
50 mM	0.0502 mL	0.251 mL	0.5021 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481