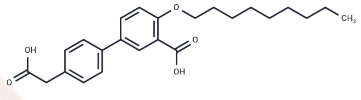
Data Sheet (Cat.No.T73552)

TargetMol

BPDA2

Chemical Properties



CAS No. : 2907659-86-1

Formula: C24H30O5

Molecular Weight: 398.49

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	BPDA2 is a highly selective and competitive SHP2 inhibitor, exhibiting IC50 values of 92.0 nM for SHP2, and 33.39 μM and 40.71 μM for SHP1 and SHP1B, respectively. This compound effectively downregulates mitogenic and cell survival signaling, including reducing expression of receptor tyrosine kinases (RTKs). Furthermore, BPDA2 suppresses SHP2-mediated signaling, leading to the inhibition of breast cancer cell phenotypes [1].
Targets(IC50)	Phosphatase
In vitro	In JIMT-1 and MDA-MB468 cells, BPDA2 (0.2, 0.4, 0.8, 1.6, 3.2 μM) inhibited basal activation of Akt and ERK1/2 in a concentration-dependent manner[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5095 mL	12.5474 mL	25.0947 mL
5 mM	0.5019 mL	2.5095 mL	5.0189 mL
10 mM	0.2509 mL	1.2547 mL	2.5095 mL
50 mM	0.0502 mL	0.2509 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

Dhanaji M Lade, et al. Design and synthesis of improved active-site SHP2 inhibitors with anti-breast cancer cell effects. Eur J Med Chem. 2023 Feb 5;247:115017.

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