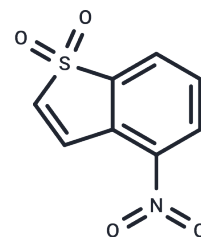


PHGDH-IN-5

Chemical Properties

CAS No. :	17402-86-7
Formula:	C ₈ H ₅ NO ₄ S
Molecular Weight:	211.20
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	Compound B12 (PHGDH-IN-5) acts as a covalent inhibitor of PHGDH, demonstrating an IC ₅₀ value of 0.29 μM. It has been shown to inhibit the proliferation of cancer cell lines that overexpress PHGDH and reduce the production of glucose-derived serine in MDA-MB-468 cells [1].
Targets(IC ₅₀)	Dehydrogenase
In vitro	PHGDH-IN-5 (Compound B12) inhibits the proliferation of MDA-MB-468, NCI-H1975, HT1080, and PC9 cells with IC ₅₀ values ranging from 9.93 μM to 21.2 μM [1]. At concentrations of 10-30 μM, PHGDH-IN-5 reduces the production of M+3-serine derived from 13C6-glucose in MDA-MB-468 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.7348 mL	23.6742 mL	47.3485 mL
5 mM	0.947 mL	4.7348 mL	9.4697 mL
10 mM	0.4735 mL	2.3674 mL	4.7348 mL
50 mM	0.0947 mL	0.4735 mL	0.947 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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