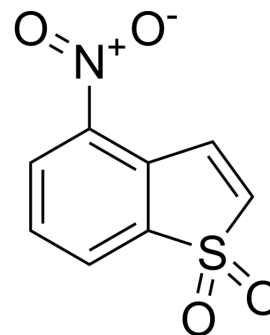


PHGDH-IN-5

Cat. No.:	HY-161456
CAS No.:	17402-86-7
Molecular Formula:	C ₈ H ₅ NO ₄ S
Molecular Weight:	211.19
Target:	Phosphoglycerate Dehydrogenase (PHGDH)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PHGDH-IN-5 (Compound B12) is a covalent inhibitor of PHGDH with an IC ₅₀ value of 0.29 μM. PHGDH-IN-5 can inhibit cell proliferation in cancer cell lines overexpressing PHGDH. PHGDH-IN-5 can reduce the production of serine derived from glucose in MDA-MB-468 cells ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.29 μM (PHGDH) ^[1] .
In Vitro	PHGDH-IN-5 can inhibit 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] . PHGDH-IN-5 (10-30 μM) reduces the production of M+3-serine derived from 13C6-glucose in MDA-MB-468 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cao XY, et al. Identification of benzo[b]thiophene-1,1-dioxide derivatives as novel PHGDH covalent inhibitors. *Bioorg Chem.* 2024;146:107330.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA