

Product Datasheet

PHGDH-IN-5

Catalog No. **BP-01927** · CAS **17402-86-7** · Form **free base** · Physical state **solid** · Color **Off-white to light yellow** · Version **1.0**
· Revision **2026-09-03**

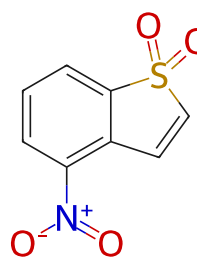
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Target Phosphoglycerate Dehydrogenase (PHGDH)	Research area Cancer
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Molecular formula **C₈H₅NO₄S**

Molecular weight **211.1950**

STRUCTURE



DESCRIPTION

PHGDH-IN-5 (Compound B12) is a covalen inhibitor of PHGDH with an IC₅₀ 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.

BIOLOGICAL ACTIVITY

In Vitro PHGDH-IN-5 can inhibit the proliferation of MDA-MB-468, NCI-H1975, HT1080, and PC9 cells, with IC₅₀ values ranging from 9.93 μM to 21.2 μM.

PHGDH-IN-5 (10-30 μM) reduces the production of M+3-serine derived from 13C6-glucose in MDA-MB-468 cells[1].

SOLUBILITY

Soluble in DMSO : 100 mg/mL

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.

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