

6PGD-IN-2

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	6PGD-IN-2 is a non-competitive inhibitor of 6-phosphogluconate dehydrogenase (6PGD) with an IC50 value of 5.1 μ M. It disrupts 6PGD oligomerization in a substrate-dependent manner and induces the production of NADPH and Ru-5-P while reducing DNA synthesis in A549 cells. 6PGD-IN-2 is applicable in research on non-small cell cancer and liver cancer.
Targets(IC50)	DNA/RNA Synthesis
In vitro	Enpp-1-IN-27 (Compound 19n) exhibits non-competitive inhibition towards both 6PGD and NADP+, with inhibition constants (Ki) of 64 μ M and 9.5 μ M, respectively. At concentrations ranging from 0-10 μ M over a period of 72 hours to 14 days, Enpp-1-IN-27 inhibits the proliferation and colony formation of A549 cells (with an anti-survival efficacy EC50 of 9.0 μ M) and Huh7 cells. Meanwhile, 6PGD-IN-2 at 0-40 μ M lowers the NADPH/NADP+ ratio and Ru-5-P levels in A549 cells, leading to a decrease in DNA synthesis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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