

DHPS-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	DHPS-IN-2 is an allosteric inhibitor of dehydrohypoxanthine phosphoribosyltransferase (DHPS), with an IC ₅₀ of 70 nM and a K _d of 26.4 μM. It significantly hinders the migration and invasiveness of melanoma cells in vitro and displays potent antitumor activity in a zebrafish A375 cell xenotransplantation model. DHPS-IN-2 is applicable for melanoma research.
Targets(IC ₅₀)	DNA/RNA Synthesis
In vitro	DHPS-IN-2 (Compound 7C16) effectively inhibits the proliferation of A375 and B16 cells, with IC ₅₀ values of 4.0 μM and 14.4 μM, respectively, while exhibiting lower cytotoxicity towards normal HaCaT cells (CC ₅₀ = 16.6 μM). Additionally, DHPS-IN-2 (1-10 μM) significantly suppresses the invasion and migration abilities of A375 cells. Furthermore, DHPS-IN-2 (1-10 μM, 24 h) impedes melanoma proliferation by modulating the expression of melanoma-related protein (eIF5A-Hyp) in A375 cells.
In vivo	Compound 7C16, also known as DHPS-IN-2, exhibits potent anti-melanoma activity in a zebrafish xenotransplantation model at a concentration of 15.6 μM over 7 days.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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