Data Sheet (Cat.No.T213025)

TargetMol

mIDH1-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	mIDH1-IN-2 is a brain-penetrating inhibitor of isocitrate dehydrogenase 1 (IDH1). It demonstrates sub-nanomolar potency against IDH1R132H and R132C, with IC50 values of 80.0 and 58.0 nM, respectively, while showing minimal activity against wild-type IDH1/2. Additionally, mIDH1-IN-2 inhibits PDK1 with an IC50 of 0.61 μM and reduces phosphorylation levels of PDH in a dose-dependent manner. The compound also inhibits cell proliferation, induces S-phase arrest, and promotes apoptosis (apoptosis). mIDH1-IN-2 is applicable in cancer research, including studies on gliomas.
Targets(IC50)	Apoptosis,Isocitrate Dehydrogenase (IDH)
In vitro	mIDH1-IN-2 (Compound 27j) effectively inhibits the proliferation of HT1080 and U87-MG cells, with an EC50 value of 121.1 μM and 69.0 nM, respectively. Additionally, mIDH1-IN-2 at concentrations of 1-5 μM over 24-48 hours can induce S-phase arrest and apoptosis in U87-MG IDH1 R132H cells.
In vivo	Compound 27j, known as mIDH1-IN-2, is detectable in mouse brain tissue following intravenous injection.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481