

## Mutant IDH1-IN-7

## 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	Mutant IDH1-IN-7 is a highly selective inhibitor of Isocitrate Dehydrogenase 1 (IDH1) with R132H mutation (IC <sub>50</sub> = 0.26 μM, K <sub>d</sub> = 2.1 μM) and R132C mutation (IC <sub>50</sub> = 1.1 μM). It does not inhibit wild-type IDH1, IDH2-wt, or IDH2R140Q. Moreover, Mutant IDH1-IN-7 reduces the production of 2-hydroxyglutarate (2-HG) in U87-MG R132H cells (EC <sub>50</sub> = 0.55 μM) and exhibits moderate antiproliferative effects on U87-MG R132H and HT-1080 cells.
Targets(IC <sub>50</sub> )	Isocitrate Dehydrogenase (IDH)
In vitro	Mutant IDH1-IN-7 (Compound 13e) exhibits moderate antiproliferative activity against U87-MG IDH1 R132H and HT-1080 cells at concentrations of 10-40 μM over 72 hours, but shows significantly reduced efficacy in U87-MG and L02 cells. At 5 μM for 1 hour, Mutant IDH1-IN-7 does not inhibit wild-type IDH1, IDH2-wt, or IDH2 R140Q, as all IC <sub>50</sub> values are greater than 40 μM.

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