
Product Data Sheet

Product Name: HIV-1 integrase inhibitor 8

Cat. No.: GC63399

Chemical Properties

Cas. No. 1568-80-5

Formula $C_{21}H_{24}O_2$

M.Wt 308.41

Solubility DMSO : 125 mg/mL (405.30 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

HIV-1 integrase inhibitor 8 is a HIV-1 integrase inhibitor, compound 8[1].

HIV-1 integrase inhibitor 8 is against 3'-processing (TC) and strand-transfer (ST) activities in the presence of Mn^{2+} as the cationic cofactor by gel assay with IC50 values of 275 μM and 200 μM , respectively. It inhibits the strand-transfer (ST) activity with an IC50 value of 200 μM [1]. The DNA relaxation activity of MCV topoisomerase is monitored by gel electrophoresis, while DNA cleavage and religation activities were monitored using a microtiter assay. HIV-1 integrase inhibitor 8 inhibits MCV topoisomerase and DNA religation with IC50 values of 500 μM and 200 μM , respectively. This result demonstrates that compound 8 is inactive against topoisomerase in both assays[1]. HIV-1 integrase inhibitor 8 induces cell cytotoxicity and yields a LD50 (dose at which the signal is reduced 50% due to cell death) of 20 μM in HeLa cells[1].

[1]. Molteni, et al. A New Class of HIV-1 Integrase Inhibitors: The 3,3,3', 3'-tetramethyl-1,1'-spirobi(indan)-5,5',6,6'-tetrol Family. J Med Chem

Caution: Product has not been fully validated for medical applications. For research use only.

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