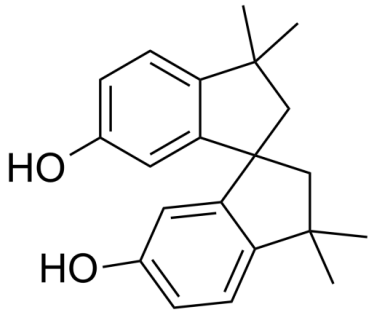
Data Sheet

Product Name:	HIV-1 integrase inhibitor 8
Cat. No.:	CS-0028610
CAS No.:	1568-80-5
Molecular Formula:	$C_{21}H_{24}O_2$
Molecular Weight:	308.41
Target:	HIV Integrase
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : 125 mg/mL (405.30 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

HIV-1 integrase inhibitor 8 is a **HIV-1 integrase** inhibitor, compound 8[1]. **In Vitro:** 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 IC_{50} values of 275 μM and 200 μM, respectively. It inhibits the strand-transfer (ST) activity with an IC_{50} 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 IC_{50} 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 LD_{50} (dose at which the signal is reduced 50% due to cell death) of 20 μM in HeLa cells[1].

References:

[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

CAIndexNames:

1,1′-Spirobi[1H-indene]-6,6′-diol, 2,2′,3,3′-tetrahydro-3,3,3′,3′-tetramethyl-

SMILES:

CC1(CC(C2=CC(O)=CC=C21)(C3)C4=CC(O)=CC=C4C3(C)C)C

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

Tel: 610-426-3128 Fax: 888-484-5008 E-mail: sales@ChemScene.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA