

DAPTA

Chemical Properties

CAS No. : 106362-34-9

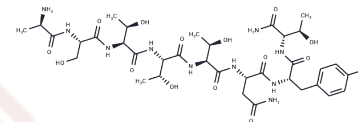
Formula: C35H56N10O15

Molecular Weight: 856.88

Keep away from moisture

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	DAPTA (Adaptavir) is an inhibitor of CCR5, shows potent anti-HIV activities.
Targets(IC50)	HIV Protease,CCR
In vitro	D-Ala-peptide T-amide (DAPTA), or Peptide T, named for its high threonine content (ASTTTNYT), is a synthetic peptide comprised of eight amino acids (185-192) of the gp120 V2 region and functions as a viral entry inhibitor by targeting selectively CCR5.? The anti-HIV-1 activity of DAPTA was evaluated in M/M infected with R5 HIV-1 strains.? DAPTA at 10(-9) M inhibited HIV-1 replication in M/M by > 90%.?PCR analysis of viral cDNA in M/M showed that DAPTA blocks HIV entry and in this way prevents HIV-1 infection.?Moreover, DAPTA acts as a strong inhibitor and was more active than the non-peptidic CCR5 antagonist TAK-779 in inhibiting apoptosis (mediated by RS HIV-1 strains produced and released by infected M/M) on a neuroblastoma cell line[1]

Solubility Information

Solubility	DMSO: 10 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.167 mL	5.8351 mL	11.6702 mL
5 mM	0.2334 mL	1.167 mL	2.334 mL
10 mM	0.1167 mL	0.5835 mL	1.167 mL
50 mM	0.0233 mL	0.1167 mL	0.2334 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Pollicita M , Ruff M R , Pert C B , et al. Profound Anti-HIV-1 Activity of DAPTA in Monocytes/macrophages and Inhibition of CCR5-mediated Apoptosis in Neuronal Cells[J]. Antiviral Chemistry and Chemotherapy, 2007, 18(5): 285-295.

Michael R. Ruff, Maria Polianova, Quan-en Yang, Gifford S. Leoung, Francis W. Ruscetti, Candace B. Pert. Update on D-Ala-Peptide T-Amide (DAPTA): A Viral Entry Inhibitor that Blocks CCR5 Chemokine Receptors[J]. Current HIV Research, 2003, 1(1):p.51-67.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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