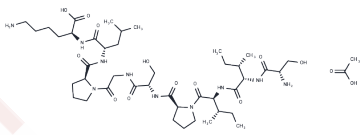
Data Sheet (Cat.No.TP1782L)

TargetMol

CEF3 acetate(199727-62-3 free base)

Chemical Properties



CAS No. :

Formula: C44H78N10O14

Molecular Weight: 971.16

Storage: Keep away from moisture
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	CEF3 acetate corresponds to aa 13-21 of the influenza A virus M1 protein. The matrix (M1) protein of influenza A virus is a multifunctional protein that plays essential structural and functional roles in the virus life cycle.
Targets(IC50)	Influenza Virus
In vitro	The matrix (M1) protein of influenza A virus is a multifunctional protein that plays essential structural and functional roles in the virus life cycle. It drives virus budding and is the major protein component of the virion, where it forms an intermediate layer between the viral envelope and integral membrane proteins and the genomic ribonucleoproteins (RNPs). It also helps to control the intracellular trafficking of RNPs. These roles are mediated primarily via protein-protein interactions with viral and possibly cellular proteins[1]. The influenza virus M1 is required to induce vRNP nuclear export but that cellular phosphorylation is an additional factor. The influenza virus M1 protein is fundamental to a late event in the virus life cycle-the transfer of vRNPs from the nucleus to the cytosol[2].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0297 mL	5.1485 mL	10.297 mL
5 mM	0.2059 mL	1.0297 mL	2.0594 mL
10 mM	0.103 mL	0.5148 mL	1.0297 mL
50 mM	0.0206 mL	0.103 mL	0.2059 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

Noton SL, et al. Identification of the domains of the influenza A virus M1 matrix protein required for NP binding, oligomerization and incorporation into virions. J Gen Virol. 2007 Aug;88(Pt 8):2280-90.