

Product Data Sheet

Product Name: CEF3
Cat. No.: GC32293

Chemical Properties

Cas. No. 199727-62-3
SMILES Ser-Ile-Ile-Pro-Ser-Gly-Pro-Leu-Lys
Formula $C_{42}H_{74}N_{10}O_{12}$ M.Wt 911.1
Solubility Soluble in DMSO 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

SIIPSGPLK

Background

CEF3 (SIIPSGPLK) 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.

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

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

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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].

[1]. 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. [2]. Bui M, et al. Role of the influenza virus M1 protein in nuclear export of viral ribonucleoproteins. J Virol. 2000 Feb;74(4):1781-6.

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