

Enfuvirtide

Chemical Properties

CAS No. : 159519-65-0

Formula: C204H301N51O64

Molecular Weight: 4491.95

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 | Enfuvirtide is an anti-HIV-1 fusion peptide that inhibits HIV p24 antigen and Gag gene expression in macrophages. |
| Targets(IC50) | HIV Protease |
| In vitro | Enfuvirtide exhibits an IC50 of 23±6 nM in cell-cell fusion assays [2]. |
| In vivo | Enfuvirtide has a half-life of 3.8 hours in humans [2]. |

Solubility Information

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|------------|---|
| Solubility | DMSO: 5.00 mg/mL (1.11 mM), Sonication is recommended. H2O: < 1 mg/mL (insoluble), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|-----------|
| 1 mM | 0.2226 mL | 1.1131 mL | 2.2262 mL |
| 5 mM | 0.0445 mL | 0.2226 mL | 0.4452 mL |
| 10 mM | 0.0223 mL | 0.1113 mL | 0.2226 mL |
| 50 mM | 0.0045 mL | 0.0223 mL | 0.0445 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

Figueira TN, et al. Quantitative analysis of molecular partition towards lipid membranes using surface plasmon resonance. Sci Rep. 2017;7:45647. Published 2017 Mar 30.

Cao P, et al. The improved efficacy of Sifuvirtide compared with enfuvirtide might be related to its selectivity for the rigid biomembrane, as determined through surface plasmon resonance. PLoS One. 2017;12(2):e0171567. Published 2017 Feb 16.

Wang X, et al. IFN- λ Inhibits Drug-Resistant HIV Infection of Macrophages. Front Immunol. 2017;8:210. Published 2017 Mar 6.

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