

## Peptide T acetate(106362-32-7 free base)

## Chemical Properties

CAS No. :

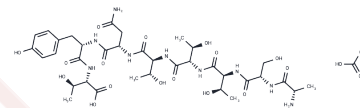
Formula: C37H59N9O18

Molecular Weight: 917.91

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   | Peptide T acetate is an octapeptide from the V2 region of HIV-1 gp120. Peptide T is a synthetic octapeptide whose possible mechanism of action is the competitive inhibition of gp120 to the CD4 receptor as well as binding to vasointestinal peptide receptors and inhibiting cytokine action  |
| Targets(IC50) | HIV Protease   |
| In vitro      | Peptide T acts to block viral entry as it inhibits in the MAGI cell assay and blocks infection in the luciferase reporter assay using HIV virions pseudotyped with ADA envelope. Peptide T selectively inhibits HIV replication using chemokine receptor CCR5 compared to CXCR4[2]. Peptide T at 10 <sup>-8</sup> M induces IL-10 production by the human Th2 cell line and PBMC. Also peptide T at 10 <sup>-9</sup> M concentration significantly inhibits IFN-γ production by PBMC[3]. |
| In vivo       | Peptide T is administered subcutaneously at different doses and phases of the experimental autoimmune encephalomyelitis (EAE) disease, but Peptide T neither prevents nor ameliorates EAE[4].  |

## Solubility Information

|            |   |
|------------|---|
| Solubility | H2O: 5 mM, Sonication is recommended.<br>DMSO: Insoluble,<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
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### Preparing Stock Solutions

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|       | <b>1mg</b> | <b>5mg</b> | <b>10mg</b> |
|-------|------------|------------|-------------|
| 1 mM  | 1.0894 mL  | 5.4472 mL  | 10.8943 mL  |
| 5 mM  | 0.2179 mL  | 1.0894 mL  | 2.1789 mL   |
| 10 mM | 0.1089 mL  | 0.5447 mL  | 1.0894 mL   |
| 50 mM | 0.0218 mL  | 0.1089 mL  | 0.2179 mL   |

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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

Ruff MR, et al. Peptide T[4-8] is core HIV envelope sequence required for CD4 receptor attachment. Lancet. 1987 Sep 26;2(8561):751.

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