

Enfuvirtide T-20 - Purified

Catalog No.: AR10745PU-S

Quantity: 90 mg

Background: Enfuvirtide also called human immunodeficiency fusion inhibitor blocks HIV's ability to infect healthy CD4 cells. It can reduce the amount of HIV in the blood and increase the number of CD4 cells. Enfuvirtide operates by disrupting the HIV-1 molecular machinery at the final phase of fusion with the target cell, preventing uninfected cells from becoming infected. Enfuvirtide mimics components of the HIV-1 fusion apparatus and displace them, preventing normal fusion. HIV attaches to the host CD4+ cell receptor using the viral protein GP120; upon binding, GP120 deforms allowing the viral protein GP41 to insert itself into the host cell's plasma membrane. Entry inhibitors bind to GP41 preventing the formation of an entry pore for the capsid of the virus, keeping it out of the cell.

Source: Synthetic

Format: **State:** Sterile Filtered White lyophilized (freeze-dried) powder
Purity: > 99.0% as determined by both RP-HPLC and SDS-PAGE analysis
Buffer System: The protein (1 mg/ml) was lyophilized with no additives
Reconstitution: Restore in sterile 18MΩ·cm⁻¹ H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions

Description: Enfuvirtide has an amino acid sequence *CH₃CO-Tyr-Thr-Ser-Leu-Ile-His-Ser-Leu-Ile-Glu-Glu-Ser-Gln-Asn-Gln-Gln-Glu-Lys-Asn-Glu-Gln-Glu-Leu-Leu-Glu-Leu-Asp-Lys-Trp-Ala-Ser-Leu-Trp-Asn-Trp-Phe-NH₂*
Molecular formula: C₂₀₄H₃₀₁N₅₁O₆₄
Molecular weight: 4492

Storage: Prior to reconstitution store at 2-8°C.
Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.