



# LKT Laboratories, Inc.

## Enfuvirtide (T-20)

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### Product Information

Product ID E5220  
CAS No. 159519-65-0  
Chemical Name

Synonym T20, Fuzeon, Pentafuside, DP178.

Formula  $C_{204}H_{301}N_{51}O_{64}$

Formula Wt. 4462.0

Melting Point

Purity  $\geq 95\%$

Solubility Best dissolved in alkaline conditions such as sterile pyrogen free 0.1% NaOH, 1% Na<sub>2</sub>CO<sub>3</sub> or disodium phenyl phosphate at a concentration

Store Temp -20°C

Ship Temp Ambient

Description Enfuvirtide is a synthetic peptide derived from HIV-1 that exhibits antiviral activity. Enfuvirtide inhibits viral fusion, mimicking the amino acid sequence of gp41, preventing fusion of the virus to the host cell membrane. Enfuvirtide may also induce apoptosis in bystander cells.

CH<sub>3</sub>CO-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-NH<sub>2</sub>

**Bulk quantities available upon request**

Product ID	Size
E5220	1 mg
E5220	2 mg
E5220	5 mg

References Tan JJ, Ma XT, Liu C, et al. The current status and challenges in the development of fusion inhibitors as therapeutics for HIV-1 infection. *Curr Pharm Des.* 2013;19(10):1810-7. PMID: 23092283.

Cai L, Gochin M, Liu K. Biochemistry and biophysics of HIV-1 gp41 - membrane interactions and implications for HIV-1 envelope protein mediated viral-cell fusion and fusion inhibitor design. *Curr Top Med Chem.* 2011 Dec;11(24):2959-84. PMID: 22044229.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.