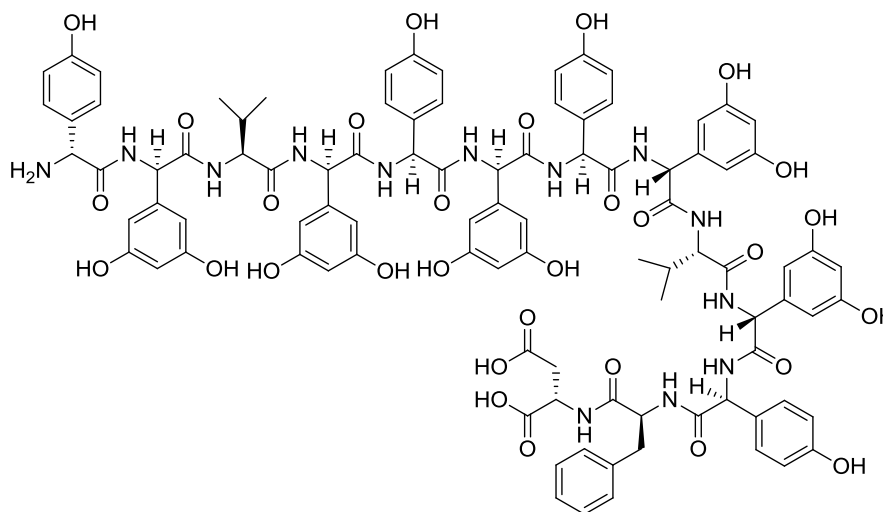


Feglymycin

Code No.: **BIA-F1420**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 209335-49-9
Molecular Formula	: C₉₅H₉₇N₁₃O₃₀
Molecular Weight	: 1900.9
Source	: <i>Streptomyces</i> sp.
Appearance	: Tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Feglymycin is an amphoteric, 13-member, linear peptide featuring 3,5-dihydroxyphenylalanine and a terminal dicarboxylate amino acid, isolated from a *Streptomyces* in 1999. Feglymycin is a potent antiviral agent with antibacterial activity, including against MRSA. Feglymycin specifically inhibits the enzymes MurA and MurC and inhibits cell-to-cell transfer between HIV-infected T cells, uninfected CD4+ T cells, and the DC-SIGN-mediated viral transfer to CD4+ T cells.

References

1. Feglymycin, a novel inhibitor of the replication of the human immunodeficiency virus. Fermentation, isolation and structure elucidation. Vértésy L. et al. *J. Antibiot.* 1999, 52, 374.
2. Feglymycin is an inhibitor of the enzymes MurA and MurC of the peptidoglycan biosynthesis pathway. Rausch S. et al. *Chembiochem.* 2011, 12, 1171.
3. Feglymycin, a unique natural bacterial antibiotic peptide, inhibits HIV entry by targeting the viral envelope protein gp120. Férrir G. *Virology* 2012, 433, 308.

Updated: 2 December 2014