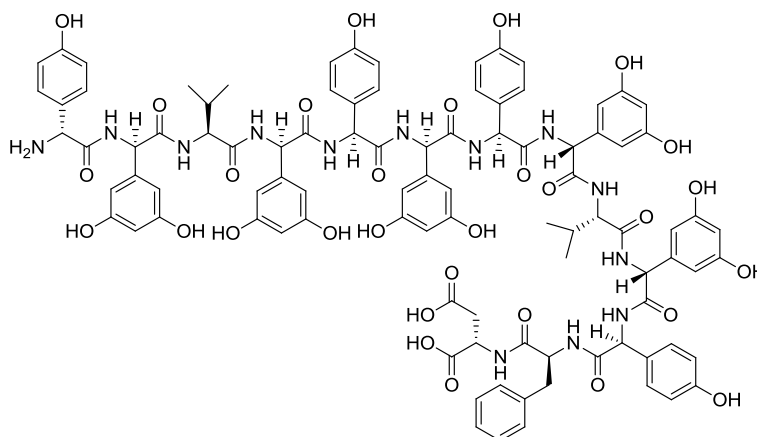


Feglymycin

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. Vértesy 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. Férris G. Virology 2012, 433, 308.