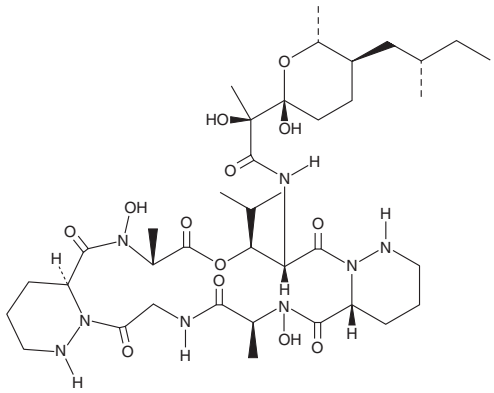
PRODUCT INFORMATION

L-156,602

Item No. 23896



CAS Registry No.: 125228-51-5
Formal Name: (3S)-3-hydroxy-N-[(2S)-2-hydroxy-1-oxo-2-[(2R,5R,6R)-tetrahydro-2-hydroxy-6-methyl-5-[(2S)-2-methylbutyl]-2H-pyran-2-yl]propyl]-L-leucyl-(3R)-hexahydro-3-pyridazinecarbonyl-N-hydroxy-L-alanylglycyl-(3S)-hexahydro-3-pyridazinecarbonyl-N-hydroxy-D-alanine, (6→1^3)-lactone
Synonym: PD 124966
MF: $C_{38}H_{64}N_8O_{13}$
FW: 841.0
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Bacterium/*Streptomyces sp.*

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-156,602 is supplied as a solid. A stock solution may be made by dissolving the L-156,602 in the solvent of choice. L-156,602 is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

Description

L-156,602 is an antagonist of the complement component 5A (C5a) receptor (IC_{50} = 1.7 µg/L in a radioligand binding assay using neutrophil membranes).[1] It is also a cyclic depsipeptide antibiotic that is active against Gram-positive bacteria.[2] L-156,602 has anti-inflammatory activity in mice, decreasing inflammation induced by muramyl dipeptide (MDP) when administered at a dose of 0.5 mg/kg and by concanavalin A (Item No. 14951) at doses and 0.25 and 0.5 mg/kg.[3]

References

1. Durette, P.L., Kopka, I.E., Lanza, T.J., *et al.* The inhibition of C5a receptor binding by analogs of L-156,602, a cyclic hexadepsipeptide antibiotic. *Bioor. Med. Chem. Lett.* **2(9)**, 1033-1038 (1992).
2. Hensens, O.D., Borris, R.P., Koupal, L.R., *et al.* L-156,602, a C5a antagonist with a novel cyclic hexadepsipeptide structure from *Streptomyces* sp. MA6348. Fermentation, isolation and structure determination. *J. Antibiot. (Tokyo)* **44(2)**, 249-254 (1991).
3. Tsuji, R.F., Magae, J., Nagai, K., *et al.* Effects of L-156,602, a C5a receptor antagonist, on mouse experimental models of inflammation. *Biosci. Biotech. Biochem.* **56(12)**, 2034-2036 (1992).

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