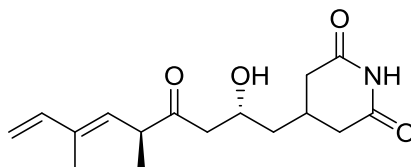


Streptimidone

Code No.: **BIA-S1853**

Pack sizes: **0.5 mg, 5 mg**



Synonyms : NSC 66645, Protomycin, Streptimidon

Specifications

CAS #	: 738-72-7
Molecular Formula	: C₁₆H₂₃NO₄
Molecular Weight	: 293.4
Source	: <i>Streptomyces</i> sp.
Appearance	: Colourless residue
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Streptimidone (protomycin) is a glutarimide antibiotic isolated from *Streptomyces* spp. first reported in 1959. Streptimidone is active against a wide spectrum of fungi and protozoans, including *Entamoeba histolytica* in vitro and in vivo. Streptimidone also exhibits herbicidal activity against several monocotyledons in the preemergent phase. Streptimidone acts as an inhibitor of protein biosynthesis by binding to 80S ribosomes.

References

1. The antiamebic effect of protomycin, a new antibiotic isolated from the culture filtrate of a species of streptomycetes. Hirabayashi A., J. Antibiot. Ser. A 1959, 12, 298.
2. Biological studies of streptimidone, a new antibiotic. Kohberger D.L., Antibiot. Chemother. 1960, 10, 9.
3. Inhibitors of protein synthesis on 80S ribosomes phase shift the gonyaulax clock. Taylor W.R. et al., J. Exp. Biol. 1982, 97, 121.
4. Isolation, antifungal activity, and structure elucidation of the glutarimide antibiotic, streptimidone, produced by *Micromonospora coerulea*. Kim B.S. et al., J. Agric. Food Chem. 1999, 47, 3372.