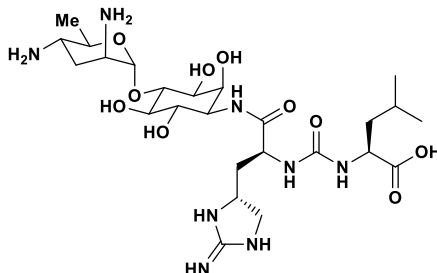


PRODUCT DATA SHEET

Minosaminomycin



Specifications

Code No.	: 02872
CAS#	: 51746-09-9
Molecular Formula	: C ₂₅ H ₄₆ N ₈ O ₁₀
Molecular Weight	: 618.689
Source	: <i>Streptomyces</i> sp. MA514-A1
Appearance	: Powder
Purity	: >98% (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in MeOH, DMSO, H ₂ O Insoluble in Hexane

The chemical structure was confirmed by NMR and HRMS.

Application Notes

Minosaminomycin is an aminoglycoside antibiotic structurally related to kasugamycin which obtained from the culture filtrate of *Streptomyces* sp. MA514-A1.^{1,2)} It is active against *Mycobacterium* including *M. tuberculosis*.¹⁾ Minosaminomycin inhibits protein synthesis in *Escherichia coli* cell-free system.³⁾

References

- 1) Minosaminomycin, a new antibiotic containing *myo*-inosamine. Hamada M, *et al. J Antibiot.* 1974 **27**(1) 81-83.
- 2) Structure of minosaminomycin. Inuma K, *et al. J Antibiot.* 1975 **28**(8) 613-615.
- 3) Biochemical study of minosaminomycin in relation to the kasugamycin group antibiotics. Suzukake K, *et al. J Antibiot.* 1977 **30**(2) 132-140.