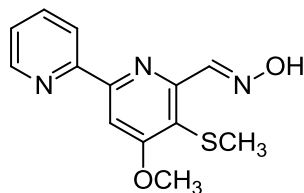


Collismycin

Code No.: **BIA-C1624**

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



Synonyms : SF 2738A

Specifications

CAS #	: 158792-24-6
Molecular Formula	: C ₁₃ H ₁₃ N ₃ O ₂ S
Molecular Weight	: 275.3
Source	: <i>Streptomyces</i> sp.
Appearance	: White to off white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Collismycin is a rare and unusual antibiotic belonging to the caerulomycin class, containing a core 2,2'-bispyridyl with an oxime substituent, produced by a strain of *Streptomyces* and discovered by researchers from Kirin, Japan in 1994. Collismycin was discovered as a potent inhibitor of glucocorticoid receptor binding. Collismycin has weak to moderate activity against bacteria, fungi and tumor cell lines. More recently, collismycin has been found to be a potent and selective neuroprotective agent against oxidative stress. Other recent publications have focused on the biosynthesis of collismycin as a route to the production of related analogues.

References

1. Caerulomycin, a new antibiotic from *Streptomyces caeruleus* Baldacci: I. Production, isolation, assay and biological properties. Funk A. & Divekar P.V. Can. J. Microbiol. 1959, 5, 317.
2. Collismycin A and B, novel non-steroidal inhibitors of dexamethasone glucocorticoid receptor binding. Shindo K. et al. J. Antibiot. 1994, 47, 1072.
3. Engineering the biosynthesis of the polyketide-nonribosomal peptide collismycin A for generation of analogs with neuroprotective activity. Garcia I. et al. Chem Biol. 2013, 20, 1022.
4. Collismycin A biosynthesis in *Streptomyces* sp. CS40 is regulated by iron levels through two pathway-specific regulators. Vior N.M. et al. Microbiology 2014, 160, 467.

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