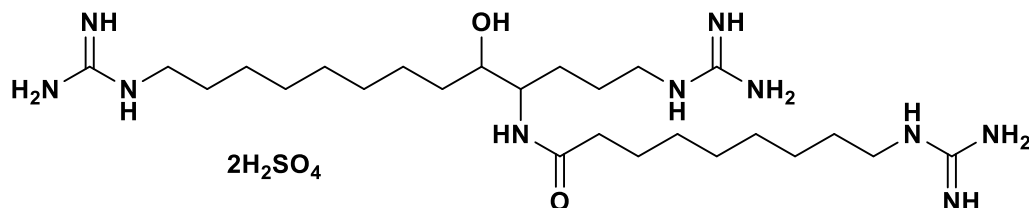


PRODUCT DATA SHEET

SF2425 (sulfate)

(Antibacterial, Gram-Positive)



Specifications

Code No	: 17577
CAS#	: Not applicable *
Molecular Formula	: C ₂₅ H ₅₄ N ₁₀ O ₂ • 2H ₂ SO ₄
Molecular Weight	: 722.919
Source	: <i>Streptomyces</i> sp.
Appearance	: Powder
Purity	: > 98% (HPLC)
Long Term Storage	: at – 20 °C
Solubility	: Soluble in H ₂ O, MeOH, DMSO Insoluble in Hexane, EtOAc

* CAS number 120692-47-9 is the salt free form of SF2425. The SF2425 we supply is the more soluble sulfate salt form of which a CAS number has not been given yet.

The chemical structure was confirmed by NMR and HRMS.

Application Notes

SF2425 related to Eulicin¹⁾ was isolated from culture filtrate of *Streptomyces violascens* SF2425.^{2,3)} SF2425 was active against Gram-positive bacteria and exhibited an antifungal activity.²⁻⁵⁾ It inhibited LPS and IFN γ induced nitric oxide formation by macrophage J774.1 cells.

References

- 1) The structure of eulicin, a new antifungal agent. Harman R.E, *et al. J. Am. Chem. Soc.* 1958 **80**(19) 5173-5178.
- 2) SF2425, a new peptide antibiotic related to eulicin. Ajito K, *et al. Sci. Reports of Meiji Seika Kaisha.* 1988 **27** 38-45.
- 3) Novel antibiotic substance SF2425 and production thereof. Ito J, *et al.* JP6463587A.
- 4) Antifungal agent and its production. Namako K, *et al.* JP9020597A.
- 5) Nitric oxide synthesis inhibitors and their use for prevention or treatment of cardiac infarction. Suenobu N, *et al.* JP2000086507A.