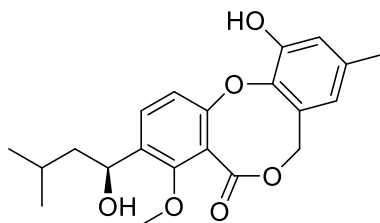


Penicillide

Code No.: **BIA-P2959**

Pack sizes: **0.25 mg, 1 mg**



Synonyms :

Specifications

CAS #	: 55303-92-9
Molecular Formula	: C ₂₁ H ₂₄ O ₆
Molecular Weight	: 372.4
Source	: <i>Talaromyces</i> sp.
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Penicillide is a tetracycline with a central 8-membered lactone ring, produced by *Penicillium*, *Talaromyces* and other sp. first reported by Miura and co-workers, Yamagata University Japan, in 1974. Penicillide, an oxytocin inhibitor, also inhibits calpain, a calcium-activated papain-like protease with an IC₅₀ of 7 μM becoming ineffective at 200 μM. Like its acetyl derivative, purpactin A, penicillide is a potent acyl CoA:cholesterol acyltransferase inhibitor. Penicillide is reported to be a plant growth inhibitor.

References

1. Structure of penicillide, a new metabolite produced by a *Penicillium* sp. Sassa T. et al. *Tetrahedron Lett.* 1974, 15, 3941.
2. Penicillide and derivatives as oxytocin antagonists. Pettibone D.J. and Salituro G.M. US Patent 5198463 A 1993-03-30.
3. AS-186 compounds, new inhibitors of acyl-CoA: cholesterol acyltransferase from *Penicillium aspersorum* KY1635. Kuroda K. et al. *J Antibiot.* 1994, 47, 16.