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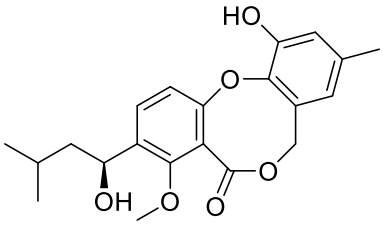
PRODUCT DATA SHEET

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	:	***Talaromyces* sp.**
Appearance	:	**Yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO.**

Application Notes

Penicillide is a tetracycle 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 asperosporum KY1635. Kuroda K. et al. J Antibiot. 1994, 47, 16.

For in vitro laboratory use only. Not for human or animal use.

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