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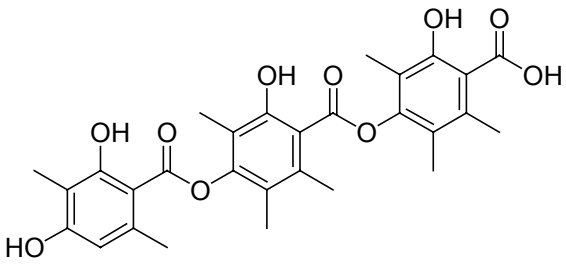
PRODUCT DATA SHEET

Thielavin A

Code: **BIA-T1091**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	:	**71950-66-8**
Molecular Formula	:	**$C_{29}H_{30}O_{10}$**
Molecular Weight	:	**538.5**
Source	:	**Unidentified fungus MST-FP1888**
Appearance	:	**White Powder**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**+4°C**
Solubility	:	**Soluble in methanol and DMSO.**

Application Notes

The fungal metabolite thielavin A and its relatives are glucose-6-phosphatase inhibitors. The three benzoic acid units are essential for inhibition. Thielavin A was originally isolated as a inhibitor of prostaglandin biosynthesis. The closely related thielavin B is a telomerase and cell wall transglycosylation inhibitor.

References

1. Thielavins as glucose-6-phosphatase (G6Pase) inhibitors: producing strain, fermentation, isolation, structural elucidation and biological activities. Sakemi S. et al. *J. Antibiot.* **2002**, 55, 941.
2. Inhibition of telomerase activity by fungus metabolites, CRM646-A and thielavin B. Togashi K. et al. *Biosci. Biotechnol. Biochem.* **2001**, 65, 651.
3. Screening systems for detecting inhibitors of cell wall transglycosylation in Enterococcus. Cell wall transglycosylation inhibitors in Enterococcus. Mani N. et al. *J. Antibiot.* **1998**, 51, 471.
4. The structures of thielavins A, B and C. Prostaglandin synthetase inhibitors from fungi. Kitahara N. *et al. J. Antibiot.* **1983**, 36, 599.

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