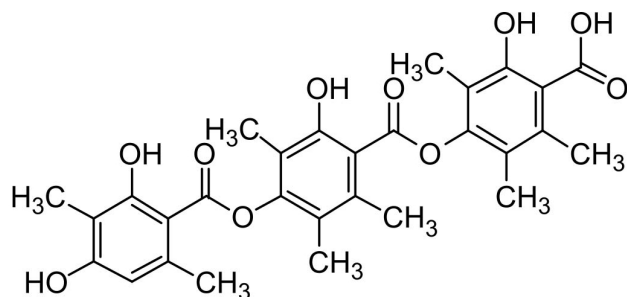


Thielavin A

Code No.: BIA-T1091

Pack sizes.: 0.5mg, 2.5mg



Synonyms:

-

Specifications

CAS #	: 71950-66-8
Molecular Formula	: C29H30O10
Molecular Weight	: 538.5
Source	: -
Appearance	: White Powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

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.