

Product Name:	Thielavin A
Product Number:	T088
CAS Number:	71950-66-8
Molecular Formula:	$C_{29}H_{30}O_{10}$
Molecular Weight:	538.5
Appearance:	White Powder
Storage Conditions:	-20°C
Description:	<p>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.</p> <p>Thielavin A is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	Thielavin A inhibits glucose-6-phosphatase.
References:	<p>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.</p> <p>Inhibition of telomerase activity by fungus metabolites, CRM646-A and thielavin B. Togashi K. et al. Biosci. Biotechnol. Biochem. 2001, 65, 651.</p> <p>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.</p> <p>The structures of thielavins A, B and C. Prostaglandin synthetase inhibitors from fungi. Kitahara N. et al. J. Antibiot. 1983, 36, 599.</p>