

Product Name:	Tetrahydrolipstatin
Product Number:	T084
CAS Number:	96829-58-2
Molecular Formula:	C ₂₉ H ₅₃ NO ₅
Molecular Weight:	495.7
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>Tetrahydrolipstatin (orlistat) is a semi-synthetic derivative of lipstatin, a metabolite isolated from <i>Streptomyces toxytricini</i>. Tetrahydrolipstatin is widely used for the treatment of obesity.</p> <p>Tetrahydrolipstatin is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Tetrahydrolipstatin acts as a potent, irreversible inhibitor of pancreatic lipase. In vivo, it blocks the absorption of triglycerides while allowing fatty acid absorption.</p>
References:	<p>Lipstatin, an inhibitor of pancreatic lipase, produced by <i>Streptomyces toxytricini</i>. I. Producing organism, fermentation, isolation and biological activity. Weibel E. et al. J. Antibiot. 1987, 40, 1081.</p> <p>Syntheses of tetrahydrolipstatin and absolute configuration of tetrahydrolipstatin and lipstatin. Barbier P. et al. Helv. Chim. Acta 1987, 70, 196.</p> <p>The total synthesis of (–)-tetrahydrolipstatin. Bodkin J. et al. Aust. J. Chem 2003, 56, 795.</p>