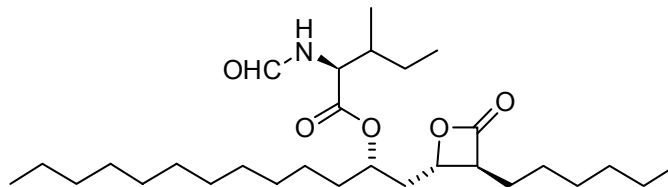


Tetrahydrolipstatin

Code: **BIA-T1320**

Pack sizes: **25 mg, 100 mg**



Synonyms : **Orlipastat, Orlistat**

Specifications

CAS #	: 96829-58-2
Molecular Formula	: C₂₉H₅₃NO₅
Molecular Weight	: 495.7
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >98%
Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Tetrahydrolipstatin (orlistat) is a semi-synthetic derivative of lipstatin, a metabolite isolated from *Streptomyces toxytricini*. Tetrahydrolipstatin acts as a potent, irreversible inhibitor of pancreatic lipase and *in vivo* acts to block the absorption of triglycerides while allowing fatty acid absorption. Tetrahydrolipstatin is widely used for the treatment of obesity.

References

1. Lipstatin, an inhibitor of pancreatic lipase, produced by *Streptomyces toxytricini*. I. Producing organism, fermentation, isolation and biological activity. Weibel E. *et al.* J. Antibiot. **1987**, 40, 1081.
2. Syntheses of tetrahydrolipstatin and absolute configuration of tetrahydrolipstatin and lipstatin. Barbier P. *et al.* Helv. Chim. Acta **1987**, 70, 196.
3. The total synthesis of (-)-tetrahydrolipstatin. Bodkin J. *et al.* Aust. J. Chem. **2003**, 56, 795.