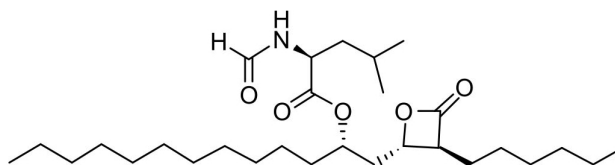


## Tetrahydrolipstatin

Pack sizes.: 25mg, 100mg



Synonyms:  
Orlipastat, Orlistat

## Specifications

CAS #	: <b>96829-58-2</b>
Molecular Formula	: <b>C29H53NO5</b>
Molecular Weight	: <b>495.7</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;98% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</b>

## 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. In vivo, it blocks 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.