

Product Name	: Orlistat
Synonyms	: Tetrahydrolipstatin
Cat No.	: M16871
CAS Number	: 96829-58-2
Molecular Formula	: C ₂₉ H ₅₃ NO ₅
Formula Weight	: 495.73
Chemical Name	: [(2S)-1-[(2S,3S)-3-hexyl-4-oxooxetan-2-yl]tridecan-2-yl] (2S)-2-formamido-4-methylpentanoate
Description	Orlistat is a drug designed to treat obesity. Its primary function is preventing the absorption of fats from the human diet, thereby reducing caloric intake. Orlistat works by inhibiting pancreatic lipase, an enzyme that breaks down triglycerides in the intestine. Without this enzyme, triglycerides from the diet are prevented from being hydrolyzed into absorbable free fatty acids and are excreted undigested.
Pathway	: Metabolic Enzyme/Protease
Target	: Fatty Acid Synthase
Receptor	: FAS; triacylglycerol lipase
Solubility	: Ethanol: 99 mg/mL (199.7 mM); DMSO: 99 mg/mL (199.7 mM)
SMILES	: <chem>CC(C)C[C@H](NC=O)C(O[C@H](CCCCCCCCC)C[C@H]([C@H]1CCCCC)OC1=O)=O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Uusitupa M. Curr Opin Lipidol. 1999 Feb;10(1):3-7.

