



Catalog # 10-2448

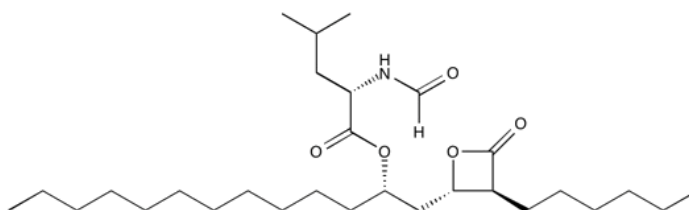
Orlistat

96829-58-2

Ro18-0647, (-)-Tetrahydrolipstatin

N-formyl-L-leucine (1S)-10[[[(2S,3S)-3-hexyl-4-oxo-2-oxetanyl]methyl]dodecyl ester

Lot # X104805



A lipase inhibitor which blocks the biosynthesis of 2-AG by inhibition of DAG lipase- α^1 . Inhibits pancreatic lipase and other lipases but not PLA₂². Inhibits fatty acid synthase and displays antitumor activity³. Prevents fat absorption in the gut and is a clinically useful antiobesity agent⁴.

- 1) Bisogno *et al.* (2006), *Development of the first potent and specific inhibitors of endocannabinoid biosynthesis*; Biochim. Biophys. Acta, **1761** 205
- 2) Hadvary *et al.* (1991), *The lipase inhibitor tetrahydrolipstatin bind covalently to the putative active site serine of pancreatic lipase*; J. Biol. Chem., **266** 2021
- 3) Kridel *et al.* (2004), *Orlistat is a novel inhibitor of fatty acid synthase with antitumor activity*; Cancer Res., **64** 2070
- 4) Ballinger & Peikin (2002), *Orlistat: it's current status as an anti-obesity drug*; Eur. J. Pharmacol., **440** 109

PHYSICAL DATA

Molecular Weight:	495.75
Molecular Formula:	C ₂₉ H ₅₃ NO ₅
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 week.

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