



LKT Laboratories, Inc.

Orlistat

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## Product Information

**Product ID** O6845

**CAS No.** 96829-58-2

**Chemical Name** N-Formyl-L-leucine(1S)-1-[[[(2S,3S)-3-hexyl-4-oxo-2-oxetanyl]methyl]-dodecyl ester

**Synonym** Orlistat, Xenical

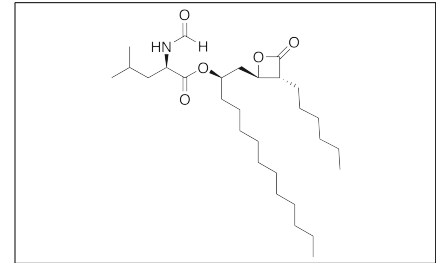
**Formula** C<sub>29</sub>H<sub>53</sub>NO<sub>5</sub>

**Formula Wt.** 495.73

**Melting Point** 43 °C

**Purity** ≥98%

**Solubility** Soluble in DMSO or ethanol.



**Bulk quantities available upon request**

Product ID	Size
O6845	100 mg
O6845	500 mg
O6845	1 g

**Store Temp** 4 °C

**Ship Temp** Ambient

**Description** Orlistat is an inhibitor of fatty acid synthase that is clinically administered for its anti-obesity benefits. Orlistat is often used as a weight loss aid, although it also exhibits anticancer chemotherapeutic activity. In animal models of T cell lymphoma, orlistat increases levels of ROS, NO, caspase 3, Bcl-2, and p53, increasing life span and inhibiting tumor growth; similar results are found in animal models of colorectal carcinoma.

**References** Kant S, Kumar A, Singh SM. Tumor growth retardation and chemosensitizing action of fatty acid synthase inhibitor orlistat on T cell lymphoma: implication of reconstituted tumor microenvironment and multidrug resistance phenotype. *Biochim Biophys Acta.* 2014 Jan;1840(1):294-302. PMID: 24060750.

Chuang HY, Chang YF, Hwang JJ. Antitumor effect of orlistat, a fatty acid synthase inhibitor, is via activation of caspase-3 on human colorectal carcinoma-bearing animal. *Biomed Pharmacother.* 2011 Jul;65(4):286-92. PMID: 21723078.

Halpern A, Pepe RB, Monegaglia AP, et al. Efficacy and tolerability of the association of sibutramine and orlistat for six months in overweight and obese patients. *J Obes.* 2010;2010. pii: 602537. PMID: 20871858.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.