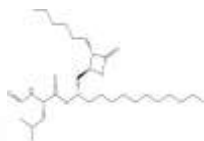


PRODUCT: Orlistat**ALTERNATE NAME:** *N*-Formyl-L-leucine (1*S*)-1-[[[(2*S*, 3*S*)-3-hexyl-4-oxo-2-oxetanyl]methyl]dodecyl ester; Tetrahydrolipstatin**CATALOG #:** B1020-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₉H₅₃NO₅**MOLECULAR WEIGHT:** 495.73**CAS NUMBER:** 96829-58-2**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>40 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** Store at -20°C. Protect from air and light**DESCRIPTION:** Orlistat is a cell-permeable, selective, and competitive lipase inhibitor (IC₅₀ = 0.15 μM). Targets serine hydrolases in the nervous system, such as diacylglycerol lipase (DAGL), which is responsible for the conversion of DAG to 2-AG. Partially inhibits the hydrolysis of triglycerides and lowers the absorption of dietary fat, promoting weight loss. Promotes the sensitivity to TRAIL in cancer cells by ROS-mediated pathways. Displays antiobesity and antihypercholesterolemic activity *in vivo*.**REFERENCES:** Hadvari, P., *et al.* (1991). *J. Biol. Chem.* **266**, 2021-2027.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**Lipase Activity Colorimetric assay Kit (**K722-100**)Lipase Activity Colorimetric assay Kit II (**K723-100**)Lipase Activity Fluorometric assay Kit III (**K724-100**)Lipoprotein Lipase Activity Fluorometric Assay Kit (**K721-100**)Human CellExp™ Endothelial Lipase, Human Recombinant (**8014-10**)**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**