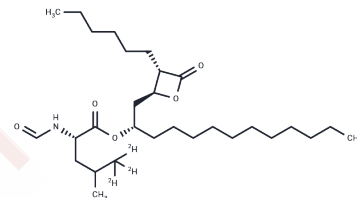


## Orlistat-D3

## Chemical Properties

CAS No. :	1356930-46-5
Formula:	C <sub>29</sub> H <sub>50</sub> D <sub>3</sub> N <sub>5</sub> O <sub>5</sub>
Molecular Weight:	498.75
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Orlistat-D3 is intended for use as an internal standard for the quantification of orlistat by GC- or LC-MS. Orlistat (T0686) is a digestive lipase inhibitor. It inhibits diacylglycerol lipase $\alpha$ (DAGL $\alpha$ ), DAGL $\beta$ , $\alpha/\beta$ -hydrolase domain-containing protein 12 (ABHD12), ABHD16A, and platelet-activating factor acetylhydrolase (PAF-AH; IC <sub>50</sub> s = 0.06, 0.1, 0.08, 0.03, and 0.05 $\mu$ M, respectively), as well as pancreatic lipase and hormone-sensitive lipase (IC <sub>50</sub> s = 0.65 and 2.1 $\mu$ g/ml, respectively) but does not inhibit fatty acid amide hydrolase (FAAH) or KIAA1363 (IC <sub>50</sub> s = >100 $\mu$ M for both). Orlistat (T0686) decreases ionomycin-induced production of the endocannabinoid 2-arachidonoyl glycerol (2-AG) in N18TG2 murine neuroblastoma cells when used at a concentration of 1 $\mu$ M. It also inhibits fatty acid synthase (FASN; Kiapp = ~0.1 $\mu$ M for the human enzyme) and the proliferation of PC3 prostate cancer cells in a concentration-dependent manner. Orlistat (T0686) (10 mg/kg) decreases serum cholesterol levels and total bod.....
Targets(IC50)	Apoptosis,Fatty Acid Synthase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.005 mL	10.0251 mL	20.0501 mL
5 mM	0.401 mL	2.005 mL	4.010 mL
10 mM	0.2005 mL	1.0025 mL	2.005 mL
50 mM	0.0401 mL	0.2005 mL	0.401 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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