

Octyl Orlistat

Chemical Properties

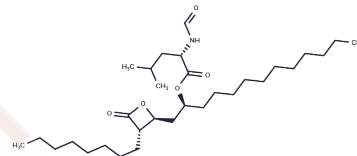
CAS No. : 1243011-56-4

Formula: C₃₁H₅₇N_O₅

Molecular Weight: 523.79

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

Octyl Orlistat, a potential fatty acid synthase (FASN) inhibitor, has demonstrated significant effectiveness in reducing tumor cell proliferation. By targeting FASN and inducing apoptosis, Orlistat is under investigation as an anti-tumor compound. Compared to Cerulenin and C75, Orlistat shows greater inhibitory potency in cell culture and cell lines. In LN229 cells, treatment with 200 μ M Orlistat for 48 hours resulted in a $63.9 \pm 8.7\%$ reduction in cell growth, while in LT68 cells, the reduction was $76.3 \pm 23.7\%$. Organotypic slice cultures treated with Orlistat exhibited decreased proliferation after Ki67 staining and an increase in caspase-3 cleavage.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9092 mL	9.5458 mL	19.0916 mL
5 mM	0.3818 mL	1.9092 mL	3.8183 mL
10 mM	0.1909 mL	0.9546 mL	1.9092 mL
50 mM	0.0382 mL	0.1909 mL	0.3818 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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