

## Obestatin (human)

## Chemical Properties

CAS No. : 1081110-72-6

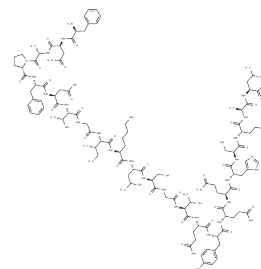
Formula: C116H176N32O33

Molecular Weight: 2546.83

Storage: Store under nitrogen, Keep away from direct sunlight,  
Keep away from moisture

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	Obestatin (human) is an endogenous ligand for G-protein eurythmic entity 39 formed by shearing of preproghrelin, which inhibits feeding in a dose-dependent manner, and can be used in the study of obesity.
Targets(IC50)	Apoptosis,Others,GHSR,PERK
In vitro	Obestatin (human) can pass through the membrane of 3T3-L1 cells without cytotoxicity. Obestatin (human) has no effect on the proliferation of 3T3-L1 preadipocytes[1].
In vivo	Obestatin (human), when administered intraperitoneally in rats, can inhibit food intake in a time- and dose-dependent manner, suppress jejunal contractions, and reduce weight gain[2].

## Solubility Information

Solubility	DMSO: 1 mg/mL (0.39 mM), Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	0.3926 mL	1.9632 mL	3.9264 mL
5 mM	0.0785 mL	0.3926 mL	0.7853 mL
10 mM	0.0393 mL	0.1963 mL	0.3926 mL
50 mM	0.0079 mL	0.0393 mL	0.0785 mL

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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.

### Reference

Guangcai Ren, et al. Effect of TAT-obestatin on proliferation, differentiation, apoptosis and lipolysis in 3T3-L1 preadipocytes. *J Pept Sci.* 2013 Nov;19(11):684-91.

Jian V Zhang, et al. Obestatin, a peptide encoded by the ghrelin gene, opposes ghrelin's effects on food intake. *Science.* 2005 Nov 11;310(5750):996-9.

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