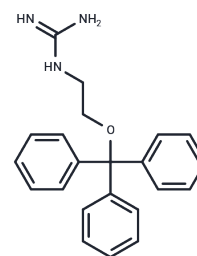


NY0116

Chemical Properties

CAS No. : 1003000-59-6
 Formula: C₂₂H₂₃N₃O
 Molecular Weight: 345.44
 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	NY0116 is an agonist of the neuromedin U receptor 2 (NMUR2), exhibiting EC ₅₀ values of 27.76 μM for hNMUR1 and 13.61 μM for hNMUR2. In NMUR2 stably expressing HEK293 cells, NY0116 reduces cAMP levels while enhancing calcium signaling [1].
Targets(IC ₅₀)	Others,NMUR
In vitro	NY0116 exhibits a potent dose-dependent inhibitory effect on cAMP in HEK293 cells stably expressing hNMUR2, with an EC ₅₀ of 1.69 nM. Additionally, NY0116 stimulates calcium signaling within the cells [1].
In vivo	NY0116 (3-30 mg/kg; subcutaneous; 14 days) significantly reduced body weight, visceral fat tissue, and cholesterol levels under a high-fat diet [1]. This study utilized male C57BL/6J mice aged 18 and 8 weeks with diet-induced obesity (DIO). The compound was administered subcutaneously at doses of 3, 10, and 30 mg/kg over a period of 14 days. Results indicated a significant reduction in body weight compared to the control group, despite maintaining a high-fat diet.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8949 mL	14.4743 mL	28.9486 mL
5 mM	0.579 mL	2.8949 mL	5.7897 mL
10 mM	0.2895 mL	1.4474 mL	2.8949 mL
50 mM	0.0579 mL	0.2895 mL	0.579 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481