Data Sheet (Cat.No.TP2528L)

TargetMol

Myostatin inhibitory peptide 2 acetate

Chemical Properties

CAS No. :

Formula: C135H231N43O35

Molecular Weight: 3016.60

Storage: 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	Myostatin inhibitory peptide 2 acetate is an effective myostatin inhibitor (Kd = 35.9 nM). It is a peptide derived from the myostatin prodomain in mice and can significantly increase muscle mass in mice with Duchenne muscular dystrophy.
Targets(IC50)	TGF-beta/Smad
In vivo	Myostatin inhibitory peptide 2 acetate (0.75 mM, 40 μL, administered intramuscularly every two weeks for a total of two doses) increased skeletal muscle mass in a muscular dystrophy mouse model [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3315 mL	1.6575 mL	3.315 mL
5 mM	0.0663 mL	0.3315 mL	0.663 mL
10 mM	0.0331 mL	0.1657 mL	0.3315 mL
50 mM	0.0066 mL	0.0331 mL	0.0663 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.

Reference

Takayama K, et al. Identification of the minimum peptide from mouse myostatin prodomain for human myostatin inhibition. J Med Chem. 2015 Feb 12;58(3):1544-9.

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