

TAK-683 acetate

Chemical Properties

CAS No. :

Formula: C₆₆H₈₇N₁₇O₁₅

Molecular Weight: 1358.5

Keep away from moisture

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	TAK-683 acetate is a nonapeptide metastatin analog and a potent full agonist of the KISS1 receptor (KISS1R), exhibiting IC ₅₀ = 170 pM and enhanced metabolic stability. This compound shows agonistic activities towards KISS1R, with EC ₅₀ values of 0.96 nM and 1.6 nM for human and rat KISS1R, respectively. TAK-683 acetate effectively depletes GnRH in the hypothalamus and reduces plasma levels of FSH, LH, and testosterone in vivo, showcasing its potential for hormone-dependent prostate cancer research.
Targets(IC ₅₀)	Kisspeptin

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7361 mL	3.6805 mL	7.3611 mL
5 mM	0.1472 mL	0.7361 mL	1.4722 mL
10 mM	0.0736 mL	0.3681 mL	0.7361 mL
50 mM	0.0147 mL	0.0736 mL	0.1472 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.

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