

Peptide C105Y TFA

Chemical Properties

CAS No. :

Formula: C97H148N20O23S.xC2HF3O2

Molecular Weight:

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	Peptide C105Y TFA is a cell-penetrating peptide synthesized based on the amino acid sequence of residues 359-374 of α 1-antitrypsin. It enhances the gene expression of DNA nanoparticles.
Targets(IC50)	Glucagon Receptor
In vitro	C105Y, when incubated with human hepatoma cells (HuH7) for as little as 3 minutes, shows nuclear and cytoplasmic fluorescence with a concentration of signals in the nucleus and nucleolus. The peptide quickly targets the nucleolus in an energy-dependent manner, while its membrane translocation and nuclear localization occur without energy. In studying its uptake and trafficking, C105Y is internalized through a pathway that does not involve clathrin or caveolin, though lipid raft-mediated endocytosis might influence its intracellular movement.

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