Product Data Sheet

Product Name: F3 peptide acetate
Cat. No.: GC81834

Chemical Properties

Cas. No.

Formula	$C_{152}H_{263}N_{49}O_{41}{\cdot}xC_2H_4O_2$	M.Wt	3433.02
Solubility	DMSO: 25 mg/mL (Need ultrasonic)	Storage	Sealed storage, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure

Background

F3 peptide acetate is a nucleolin-binding tumor-homing peptide that mediates selective uptake and internalization by tumor cells. F3 peptide acetate is a 31-amino acid fragment of human high mobility group nucleosomal protein 2 (HMGN2). F3 peptide acetate inhibits protein synthesis through

ribosome inactivation. F3 peptide acetate targets the tumor vasculature. F3 peptide acetate can serve as an effective ligand to improve the druggability of macromolecular drugs or nanoparticles. F3 peptide acetate is used in research on cancers such as glioblastoma and breast cancer [1] [2].

In Vitro, FITC-F3 peptide acetate (10 nM; 2 h) binds to the 231-H2N cell membrane, internalizes, and translocates to the nucleus and nucleolus, colocalizing with nucleolin[2].

References:
[1]. Ham SH, et al. Molecular tumor targeting of gelonin by fusion with F3 peptide. Acta pharmacologica Sinica. 2017 Jun;38(6):897-906.
[2]. Cornelissen B, et al. 111In-BnDTPA-F3: an Auger electron-emitting radiotherapeutic agent that targets nucleolin. EJNMMI research. 2012 Feb 20;2:9.