

NGR peptide Trifluoroacetate

Chemical Properties

CAS No. :

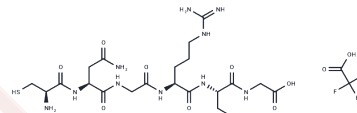
Formula: C22H37F3N10O10S2

Molecular Weight: 722.72

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	NGR peptide Trifluoroacetate, containing the asparagine-glycine-arginine (NGR) motif, is a synthetic peptide recognized by CD13/aminopeptidase N (APN) receptor isoforms that are selectively overexpressed in tumor neovasculature, and NGR peptide Trifluoroacetate is thus employed in targeted drug delivery and diagnostic strategies designed to exploit tumor-specific vasculature expression patterns, thereby advancing cancer research.
Targets(IC50)	Others,Aminopeptidase
In vivo	NGR peptide Trifluoroacetate (20 mg/kg, 4-6 weeks) was intravenously administered to the HepG2 mouse tumor model, blocking 99mTc-NGR tumor uptake. [3]

Solubility Information

Solubility	H2O: ≥ 80 mg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3837 mL	6.9183 mL	13.8366 mL
5 mM	0.2767 mL	1.3837 mL	2.7673 mL
10 mM	0.1384 mL	0.6918 mL	1.3837 mL
50 mM	0.0277 mL	0.1384 mL	0.2767 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

Enyedi KN, et al. NGR-peptide-drug conjugates with dual targeting properties. PLoS One. 2017 Jun 2;12(6): e0178632.

Wang RE, et al. Development of NGR peptide-based agents for tumor imaging. Am J Nucl Med Mol Imaging. 2011;1 (1):36-46.

Ma W, et al. Biodistribution and SPECT imaging study of (99m)Tc labeling NGR peptide in nude mice bearing human HepG2 hepatoma. Biomed Res Int. 2014;2014:618096.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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