

NGR peptide Trifluoroacetate

Chemical Properties

CAS No.:	TP1771
Formula:	C22H37F3N10O10S2
Molecular Weight:	722.72
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	NGR peptide Trifluoroacetate containing the asparagine-glycine-arginine (NGR) motif is recognized by CD13/aminopeptidase N (APN) receptor isoforms that are selectively overexpressed in tumor neovasculature.
In vitro	NGR peptide can selectively bind to APN/CD13 either immune-captured or expressed on the surface of cells, the receptor of the tumor-homing NGR peptide was suspected to be APN/CD13. The NGR peptide is reported to have the greatest tumor selectivity. An anti-cancer drug Doxorubicin (DOX) coupled to an NGR peptide displays enhanced anti-tumor effects with even lower toxicity than the free drug itself[2].
In vivo	NGR peptide imaging in vivo not only provides more insight into NGR' s targeting process, including bio-distribution and pharmacokinetics, but also reveals angiogenic activities related to tumor progression and malignancy[2].

Solubility Information

Solubility	H2O: 100 mg/mL (138.37 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.384 mL	6.918 mL	13.837 mL
5 mM	0.277 mL	1.384 mL	2.767 mL
10 mM	0.138 mL	0.692 mL	1.384 mL
50 mM	0.028 mL	0.138 mL	0.277 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Enyedi KN, et al. NGR-peptide-drug conjugates with dual targeting properties. NGR-peptide-drug conjugates with dual targeting properties.

Inhibitors · Natural Compounds · Compound Libraries

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