

Bioactive Molecules, Building Blocks, Intermediates

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Data Sheet

Product Name: Cat. No.: Molecular Formula: Molecular Weight: Target: Pathway: Solubility: NGR peptide Trifluoroacetate CS-7687 C22H37F3N10O10S2 722.72 Aminopeptidase Metabolic Enzyme/Protease H2O : ≥ 100 mg/mL (138.37 mM)

BIOLOGICAL ACTIVITY:

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. IC50 & Target: CD13/aminopeptidase N (APN) receptor^[1] 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].

References:

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

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

CAIndexNames:

Glycine, L-cysteinyl-L-asparaginylglycyl-L-arginyl-L-cysteinyl-, 2,2,2-trifluoroacetic acid

SMILES:

Caution: Product has not been fully validated for medical applications. For research use only.

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