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NGR peptide Trifluoroacetate

Catalog No: tcsc7687

Available Sizes

Size: 1mg

Size: 5mg

Specifications

Formula:
$C_{22}H_{37}F_3N_{10}O_{10}S_2$

Pathway:
Metabolic Enzyme/Protease

Target:
Aminopeptidase

Purity / Grade:
>98%

Solubility:
H2O : ≥ 100 mg/mL (138.37 mM)

**Observed Molecular Weight:**
722.72

Product 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.

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:

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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].
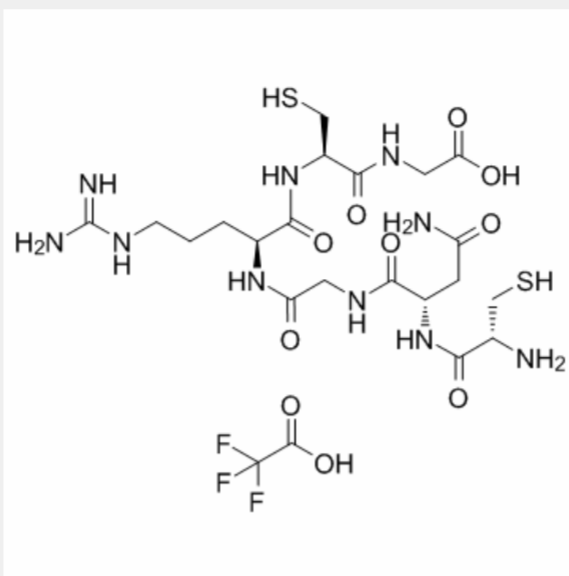
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