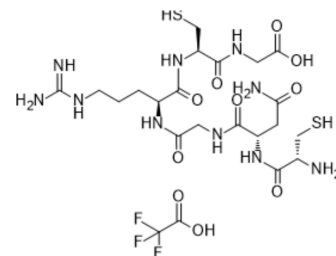


## NGR peptide Trifluoroacetate

Cat. No.:	HY-P1043A
Molecular Formula:	C <sub>22</sub> H <sub>37</sub> F <sub>3</sub> N <sub>10</sub> O <sub>10</sub> S <sub>2</sub>
Molecular Weight:	722.72
Sequence:	Cys-Asn-Gly-Arg-Cys-Gly
Sequence Shortening:	CNGRCG
Target:	Aminopeptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	Sealed storage, away from moisture
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 50 mg/mL (69.18 mM); Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (138.37 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	NGR peptide Trifluoroacetate containing the Asn-Gly-Arg (NGR) motif. NGR peptide Trifluoroacetate binds to APN/CD13. NGR peptide Trifluoroacetate is directly conjugated to imaging agents that can be used for tumor imaging <sup>[1][2]</sup> .	
IC <sub>50</sub> & Target	CD13	
In Vivo	NGR peptide Trifluoroacetate (20 mg/kg; i.v.) can be used as a potential SPECT agent for imaging and early diagnosis of tumor <sup>[2]</sup> .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
Animal Model:	4-6 weeks, BALB/c nude mice (HepG2 tumor model) <sup>[2]</sup>	

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Dosage:	20 mg/kg
Administration:	I.v.
Result:	Blocked the tumor uptake for <sup>99m</sup> Tc-NGR.

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## REFERENCES

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- [1]. Wang RE, et al. Development of NGR peptide-based agents for tumor imaging. Am J Nucl Med Mol Imaging. 2011;1(1):36-46.
- [2]. Ma W, et al. Biodistribution and SPECT imaging study of (<sup>99m</sup>Tc) labeling NGR peptide in nude mice bearing human HepG2 hepatoma. Biomed Res Int. 2014;2014:618096.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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