PRODUCT INFORMATION

RHRTPMFYGLM-NH_2 (trifluoroacetate salt)

Item No. 43089

Formal Name: (S)-1-(L-arginyl-L-histidyl-L-arginyl-L-threonyl)-N-((S)-1-(((S)-1-(((S)-1-((2-(((S)-1-(((S)-1-amino-4-(methylthio)-1-oxobutan-2-yl)amino)-4-methyl-1-oxopentan-2-yl)amino)-2-oxoethyl)amino)-3-(4-hydroxyphenyl)-1-oxopropan-2-yl)amino)-1-oxo-3-phenylpropan-2-yl)amino)-4-(methylthio)-1-oxobutan-2-yl)pyrrolidine-2-carboxamide, trifluoroacetate salt

Peptide Sequence: RHRTPMFYGLM-NH_2

MF: $C_{63}H_{98}N_{20}O_{13}S_2 \bullet XCF_3COOH$

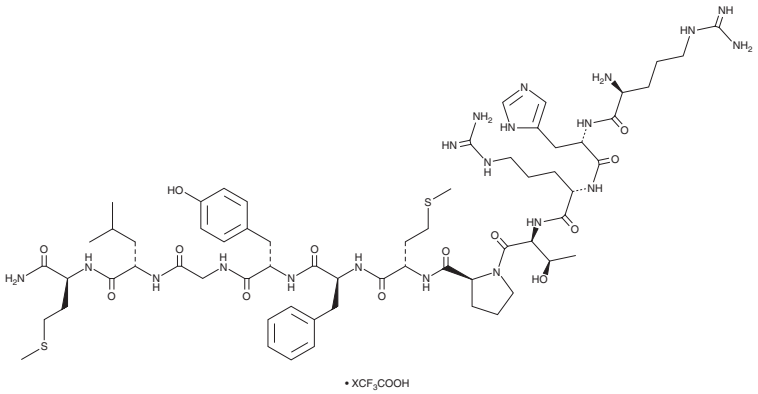
FW: 1,407.7

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

RHRTPMFYGLM-NH_2 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the RHRTPMFYGLM-NH_2 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. RHRTPMFYGLM-NH_2 (trifluoroacetate salt) is soluble (≥10 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of RHRTPMFYGLM-NH_2 (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. RHRTPMFYGLM-NH_2 (trifluoroacetate salt) is soluble (≥10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

RHRTPMFYGLM-NH_2 is a derivative of the endogenous neurokinin-1 (NK_1) receptor agonist C14TKL-1 that contains leucine at position 10 instead of tyrosine.[1,2] It contains the typical tachykinin motif FXGLM-NH_2.

References

1. Jiang, Y., Gao, G., Fang, G., *et al.* PepPat, a pattern-based oligopeptide homology search method and the identification of a novel tachykinin-like peptide. *Mamm. Genome* **14(5),** 341-349 (2003).
2. Page, N.M. New challenges in the study of the mammalian tachykinins. *Peptides* **26(8),** 1356-1368 (2005).

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