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PRODUCT INFORMATION

[Sar^9, Met(O$_2$)^{11}]-Substance P (trifluoroacetate salt)

Item No. 30106

Formal Name: (S)-2-((S)-1-(L-arginyl-L-prolyl-L-lysyl) pyrrolidine-2-carboxamido)-N^1-((S)-5-amino-1-(((S)-1-(((S)-1-((2-(((S)-1-(((S)-1-amino-4-(methylsulfonyl)-1-oxobutan-2-yl)amino)-4-methyl-1-oxopentan-2-yl) amino)-2-oxoethyl)(methyl)amino)-1-oxo-3-phenylpropan-2-yl)amino)-1-oxo-3-phenylpropan-2-yl)amino)-1,5-dioxopentan-2-yl)pentanediamide, trifluoroacetate salt

Synonym: Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-{Sar}-Leu-Met[O$_2$]-NH$_2$

MF: $C_{64}H_{100}N_{18}O_{15}S \bullet XCF_3COOH$

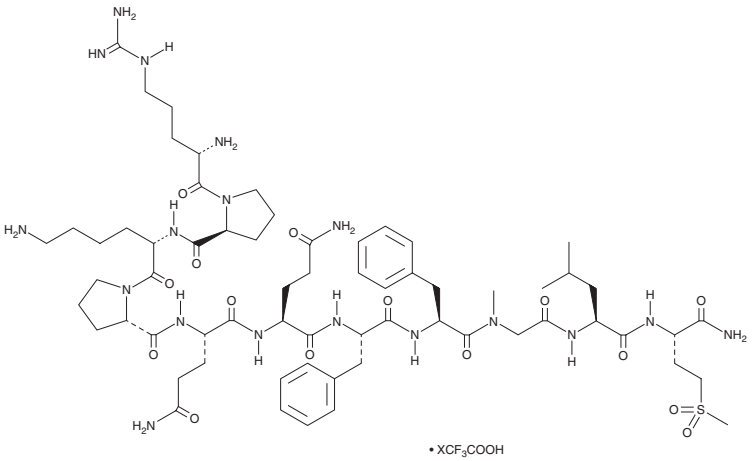
FW: 1,393.7

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years



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

Laboratory Procedures

[Sar^9, Met(O$_2$)^{11}]-Substance P (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the [Sar^9, Met(O$_2$)^{11}]-Substance P (trifluoroacetate salt) in water. The solubility of [Sar^9, Met(O$_2$)^{11}]-Substance P (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

[Sar^9, Met(O$_2$)^{11}]-Substance P (Sar-SP) is a peptide agonist of the neurokinin-1 (NK$_1$) receptor.[1] It is selective for NK$_1$ over NK$_2$ and NK$_3$ receptors. Sar-SP induces inositol phosphate formation in U373MG glioblastoma cells with an EC$_{50}$ value of 3.8 nM, an effect that can be blocked by the NK$_1$ receptor antagonist SR 140333.[2] It induces contractions in isolated human bronchi when used at concentrations of 3, 100, and 1,000 nM.[4] Sar-SP (10, 25, 65, and 100 pmol/animal, i.c.v.) increases mean arterial pressure and heart rate in conscious rats.[5]

References

1. Regoli, D., Drapeau, G., Dion, S., *et al.* New selective agonists for neurokinin receptors: pharmacological tools for receptor characterization. *Trends Pharmacol. Sci.* **9(8)**, 290-295 (1988).
2. Oury-Donat, F., Thurneyssen, L.O., Gauthier, T., *et al.* SR 1140333, a novel, selective, and potent nonpeptide antagonist of the NKI tachykinin receptor: Characterization on the U373MG cell line *J. Neurochem.* **62(4)**, 1399-1407 (1994).
3. Barchasz, E., Naline, E., Molimard, M., *et al.* Interleukin-1β-induced hyperresponsiveness to [Sar^9,Met(O$_2$)^{11}] substance x 2 P in isolated human bronchi. *Eur. J. Pharmacol.* **379(1)**, 87-95 (1999).
4. Cellier, E., Barbot, L., Iyengar, S., *et al.* Characterization of central and peripheral effects of septide with the use of five tachykinin NK$_1$ receptor antagonists in the rat. *Br. J. Pharmacol.* **127(3)**, 717-728 (1999).

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