Data Sheet

Product Name:	[Sar9,Met(O2)11]-Substance P (TFA)
Cat. No.:	CS-0102976
Molecular Formula:	$C_{66}H_{101}N_{18}F_3O_{17}S$
Molecular Weight:	1507.68
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	H2O : 100 mg/mL (66.33 mM; Need ultrasonic)

RPKPQQFF-{Sar}-LM[O_2]-NH_2 (TFA salt)

BIOLOGICAL ACTIVITY:

[Sar9,Met(O2)11]-Substance P TFA is a **tachykinin NK_1 receptor** selective agonist. IC50 & Target: NK_1 receptor[1] **In Vitro:** [Sar9,Met(O2)11]-Substance P and septide (10-100 pmol per rat, i.c.v.) are equipotent in increasing mean arterial blood pressure (MAP) and heart rate (HR), yet they have dissimilar time-course. Both agonists increase dose-dependently face washing and sniffing while [Sar9,Met(O2)11]-Substance P is the sole to produce grooming[1].

References:

[1]. Cellier E, et al. Characterization of central and peripheral effects of septide with the use of five tachykinin NK1 receptor antagonists in the rat. Br J Pharmacol. 1999 Jun;127(3):717-28.

CAIndexNames:

Substance P, 9-(N-methylglycine)-, S,S-dioxide (TFA)

SMILES:

[RPKPQQFF-{Sar}-LM[O2]-NH2 (TFA salt)]

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

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