[D-Pro2,D-Phe7,D-Trp9] Substance P

Cat. No.:	HY-P3809
CAS No.:	77275-70-8
Molecular Formula:	$C_{72}H_{105}N_{19}O_{13}S$
Molecular Weight:	1476.79
Sequence Shortening:	RPKPQQFFWLM-NH2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	[D-Pro2,D-Phe7,D-Trp9] Substance P is a Substance P (HY-P0201) analogue. [D-Pro2,D-Phe7,D-Trp9] Substance P is an inhibitor of Substance P. [D-Pro2,D-Phe7,D-Trp9] Substance P contracts guinea-pig ileum (GPI) indirectly[1][2].
IC_{50} & Target	Substance P[2]
In Vitro	[D-Pro2,D-Phe7,D-Trp9] Substance P (10-100 μM; 2 min or 10 min) produces dose-related contractions of the guinea-pig ileum and in the rabbit external jugular vein[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	[D-Pro2,D-Phe7,D-Trp9] Substance P (1-2 mg/kg; i.v.; once) inhibits the salivary secretion which was induced by Substance P in rats. In the dosage range at 1-1.5 mg/kg slightly increases the blood pressure[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hawcock AB, et al. Agonist effects of [D-Pro2,D-Phe7,D-Trp9]substance P--evidence for different receptors. Eur J Pharmacol. 1982 May 7;80(1):135-8.

[2]. Folkers K, et al. Chemical design of antagonists of substance P. Acta Physiol Scand. 1981 Apr;111(4):505-6.

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

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