

[D-Pro4,D-Trp7,9] Substance P (4-11)

Cat. No.:	HY-P3803
CAS No.:	81039-85-2
Molecular Formula:	C ₅₇ H ₇₅ N ₁₃ O ₁₀ S
Molecular Weight:	1134.35
Sequence Shortening:	PQQWFWLM-NH2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	[D-Pro4,D-Trp7,9] Substance P (4-11) is a potent antagonist of Substance P (HY-P0201). [D-Pro4,D-Trp7,9] Substance P (4-11) decreases plasma aldosterone (ALDO) concentration ^[1] .
In Vivo	<p>[D-Pro4,D-Trp7,9] Substance P (4-11) inhibits the hypotensive effect of Substance P in anesthetized rats, the vasodilator effect in the rabbit perfused heart, relaxation induced by Substance P in dog carotid arteries contracted with noradrenaline, and stimulatory actions of Substance P in the guinea pig ileum and the guinea pig trachea^[1].</p> <p>[D-Pro4,D-Trp7,9] Substance P (4-11) (0.3 nM/K/min; i.p. for 7 days) significantly decreases plasma aldosterone (ALDO) concentration and causes atrophy of adrenal zona glomerulosa (ZG) and its parenchymal cells^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Mizrahi J, et al. Substance P antagonists active in vitro and in vivo. Eur J Pharmacol. 1982 Aug 13;82(1-2):101-5.

[2]. Mazzocchi G, et al. Evidence that endogenous substance-P (SP) is involved in the maintenance of the growth and steroidogenic capacity of rat adrenal zona glomerulosa. Neuropeptides. 1995 Jul;29(1):53-8.

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

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