

[Pro9]-Substance P

Cat. No.:	HY-P2475
CAS No.:	104486-69-3
Molecular Formula:	C ₆₆ H ₁₀₂ N ₁₈ O ₁₃ S
Molecular Weight:	1387.69
Sequence Shortening:	RPKPQQFFPLM-NH2
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	[Pro9]-Substance P is a potent, reversible and selective agonist of NK-1 tachykinin receptors with an EC ₅₀ of 0.93 nM ^[1] .
IC ₅₀ & Target	NK1 0.93 nM (EC50)
In Vitro	[³ H][Pro9]-Substance P can be used as a radio ligand for NK- 1 binding sites ^[1] . [Pro9]-Substance P stimulates inositol phosphate formation with an efficacy only slightly lower than that of SP (EC ₅₀ values of 0.93 ± 0.07 and 0.45 ± 0.06 nM, respectively) on primary cultures of newborn mouse cortical glial cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Petitet F, et al. Further demonstration that [Pro9]-substance P is a potent and selective ligand of NK-1 tachykinin receptors. J Neurochem. 1991 Mar;56(3):879-89.

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

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