

## Substance P (4-11)

Cat. No.:	HY-P3891
CAS No.:	53749-60-3
Molecular Formula:	C <sub>46</sub> H <sub>67</sub> N <sub>11</sub> O <sub>10</sub> S
Molecular Weight:	966.16
Sequence Shortening:	PQQFFGLM-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

<b>Description</b>	Substance P (4-11), the C-terminus fragment of Substance P ( <a href="#">Substance P (HY-P0201)</a> ), is a Substance P agonist that shows highly selective for NK1 receptors <sup>[1][2]</sup> .
<b>In Vitro</b>	Substance P (4-11) stimulates significantly the proliferation of human T lymphocytes in vitro at concentrations of 1 nM-100 nM, as assessed by the uptake of [ <sup>3</sup> H]thymidine and [ <sup>3</sup> H]leucine <sup>[1]</sup> . Substance P (4-11) elicits a strong burst of Luminol ( <a href="#">Luminol (HY-15922)</a> )-enhanced chemiluminescence with a time course and dose-response curves in human polymorphonuclear leukocytes (PMN) <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. D G Payan, et al. Specific stimulation of human T lymphocytes by substance P. J Immunol. 1983 Oct;131(4):1613-5.
- [2]. L Wang, et al. Substance P induces ion secretion in mouse small intestine through effects on enteric nerves and mast cells. Am J Physiol. 1995 Jul;269(1 Pt 1):G85-92.
- [3]. P Cornaglia-Ferraris, et al. Sensory neuropeptides (substance P) and 4-11 SP enhance human neutrophils chemiluminescence; the role of L-arginine. Int J Immunopharmacol. 1986;8(4):463-8.

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

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