

Substance P (3-11)

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| Cat. No.: | HY-P3895 |
| CAS No.: | 51165-11-8 |
| Molecular Formula: | C ₅₂ H ₇₉ N ₁₃ O ₁₁ S |
| Molecular Weight: | 1094.33 |
| Sequence Shortening: | KPQQFFGLM-NH2 |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | Substance P (3-11) is a substance P (SP) fragment peptide that can cross the BBB. Substance P (3-11) has contracting activities on guinea pig ileum. Substance P (3-11) also promotes human monocyte chemotaxis ^{[1][2][5]} . |
| In Vitro | Substance P (3-11) permeates the BBMEC monolayers with permeation rate (cm/s) of 1.92×10^5 ^[2] . Substance P (3-11) promotes human monocyte chemotaxis in a modified Boyden chamber assay ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | Substance P (3-11) (30 nmol/kg, i.v. infusion) increases plasma histamine in rats ^[4] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Yanaihara N, et al. Immunological aspects of secretin, substance P, and VIP. *Gastroenterology*. 1977 Apr;72(4 Pt.2):803-10.
- [2]. Chappa AK, et al. Characteristics of substance P transport across the blood-brain barrier. *Pharm Res*. 2006 Jun;23(6):1201-8.
- [3]. Ruff MR, et al. Substance P receptor-mediated chemotaxis of human monocytes. *Peptides*. 1985;6 Suppl 2:107-11.
- [4]. Sertl K, et al. Substance P: the relationship between receptor distribution in rat lung and the capacity of substance P to stimulate vascular permeability. *Am Rev Respir Dis*. 1988 Jul;138(1):151-9.
- [5]. Freed AL, et al. Investigation of substance P transport across the blood-brain barrier. *Peptides*. 2002 Jan;23(1):157-65.

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

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