Substance P

Neuropeptide

Neuropeptide inducing Ca^{2+} mobilization. Activates G_1-Proteins directly. Induces superoxide production in neutrophils.

Substance P (SP) was first discovered in 1931 by von Euler and Gaddum and is the best characterized member of the neurokinins. This class of peptide neurotransmitters includes neurokinin A (NK-A) and B (NK-B), and are characterized by the common C-terminal sequence Phe-X-Gly-Leu-Met-NH_2. The receptors for SP, NK-A and NK-B, designated NK_1, NK_2 and NK_3 respectively, are members of the G protein-coupled receptor superfamily. All three receptors have been shown to stimulate inositol phospholipid hydrolysis. SP is involved in pain, smooth muscle contraction, secretion from exocrine and endocrine glands, inflammatory response including vasodilation, plasma extravasation and mobilization of immune system cells.

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ALX-167-003-M001	1mg
ALX-167-003-M005	5mg

Manuals, SDS & CofA View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

CAS	33507-63-0
Formula	$C_{63}H_{98}N_{18}O_{13}S$
Formulation	Lyophilized
MI	**14:** 8863
MW	1347.6
Purity	≥97% (HPLC)
Sequence	H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH_2
Solubility	Soluble in DMSO or water.

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