

## Substance P (7-11) acetate

## Chemical Properties

CAS No. :

Formula: C31H44N6O5S.xC2H4O2

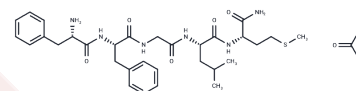
Molecular Weight:

Keep away from moisture

Storage:

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Substance P (7-11) acetate is a specific fragment of the neuropeptide Substance P, acting as a neurotransmitter and neuromodulator in the central nervous system, with its endogenous receptor being neurokinin 1 (NK1R), making it useful for neurophysiological and pharmacological research.
Targets(IC50)	Neurokinin receptor
In vitro	Substance P (7-11) acetate at concentrations greater than 1µM can promote the production of prostaglandin E <sub>2</sub> (PGE <sub>2</sub> ) and collagenase. Fluorescent dye Fura-2 detection revealed that the substance capable of increasing intracellular calcium concentration is Substance P (7-11), whereas intact SP, SP-(1-4), SP-(1-6), SP-(8-11) or SP-(9-11), as well as tachykinin family members neurokinin A (NKA) and neurokinin B (NKB), failed to induce the aforementioned intracellular calcium elevation effect. Additionally, the maximum change in intracellular calcium concentration induced by 10µM Substance P (7-11) was 140±30nM [1].

## Solubility Information

Solubility	H2O: 1.5 mg/mL,when pH is adjusted to 2 with HCl. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Halliday DA, et al. The substance P fragment SP-(7-11) increases prostaglandin E<sub>2</sub>, intracellular Ca<sup>2+</sup> and collagenase production in bovine articular chondrocytes. *Biochem J.* 1993 May 15;292 ( Pt 1):57-62.

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