



>>Entry Name: Substance P, 9CI

Synonym(s): SP

CAS Registry Number: 33507-63-0

Arg-Pro-Lys-⁴Pro-Gln-Gln-Phe-Phe-Gly-Leu-¹¹Met-NH₂

Molecular Formula: C₆₃H₉₈N₁₈O₁₃S

Molecular Weight: 1347.646

Accurate Mass: 1346.728147

Percentage Composition: C 56.15%; H 7.33%; N 18.71%; O 15.43%; S 2.38%

Biological Source: Present in the brain of vertebrate species, in spinal ganglia and in the intestines, especially the duodenum and jejunum

Use/Importance: Tachykinin with a wide variety of pharmacological properties including the ability to cause transient hypotension and stimulate salivary secretion on intravenous injection and also to bring about contraction of smooth muscle preparations

Physical Description: Cryst. + 3AcOH + 4H₂O

Optical Rotation: [α]_D²⁷ -76 (5% AcOH aq.)

Other Data: Fragment 4-11 is reported to be as active as Substance P itself

Fluka: 85965

Sigma: S0880

References:

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