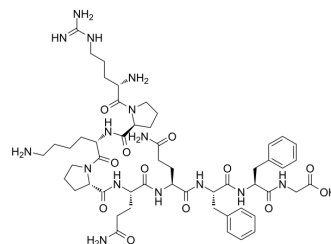


## Substance P (1-9)

<b>Cat. No.:</b>	HY-P1494
<b>CAS No.:</b>	57468-17-4
<b>Molecular Formula:</b>	C <sub>52</sub> H <sub>77</sub> N <sub>15</sub> O <sub>12</sub>
<b>Molecular Weight:</b>	1104.26
<b>Sequence:</b>	Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly
<b>Sequence Shortening:</b>	RPKPQQFFG
<b>Target:</b>	Neurokinin Receptor
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Sealed storage, away from moisture and light, under nitrogen
	Powder    -80°C    2 years
	-20°C    1 year



\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 25 mg/mL (22.64 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	<b>Preparing Stock Solutions</b>			<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>		0.9056 mL	4.5279 mL	9.0558 mL
		<b>5 mM</b>		0.1811 mL	0.9056 mL	1.8112 mL
	<b>10 mM</b>		0.0906 mL	0.4528 mL	0.9056 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (2.26 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.26 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (2.26 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Substance P (1-9) is nonapeptide, which decreases the inactivation of substance P by the guinea-pig ileum and urinary bladder.
<b>In Vitro</b>	Substance P (1-9) is a nonapeptide, which decreases the inactivation of substance P by the guinea-pig ileum and urinary bladder.

---

bladder, but with no significant effects on bradykinin or SP-(6-11)<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

---

[1]. Growcott JW, et al. Effects of substance P-(1-9) nonapeptide amide on inactivation of substance P in vitro. Eur J Pharmacol. 1982 Oct 15;84(1-2):107-9.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA