

[Gly11] Substance P

PRODUCT DESCRIPTION

[Gly11] Substance P is a 13-amino-acid A peptide related to the tachykinin/substance P family, an 11-amino-acid neuropeptide that signals through NK1 receptors to mediate pain transmission, inflammation, emesis, and neurogenic vasodilation. Widely used in pain, inflammation, and neuroscience research for studying nociception, neurogenic inflammation, and the development of NK1 receptor antagonists (e.g., aprepitant for chemotherapy-induced nausea).

PRODUCT SPECIFICATIONS

Catalog Number	BPT1934
Molecular Weight	1273.4816 Da
Molecular Formula	C60H92N18O13
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

RPKPQQFFGLG-NH2

Three-Letter Code:

H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Gly-NH2

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Neurokinin Receptors (NK1-3R)
Research Area	Neuroscience
Sub-category	Tachykinin Signaling & Pain

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
Usage	Research use

QUALITY CONTROL

Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request