

Preprogalanin 28-67, rat

PRODUCT DESCRIPTION

Preprogalanin 28-67, rat is a 40-amino-acid A peptide from the galanin family, a neuropeptide widely expressed in the central and peripheral nervous systems. Galanin modulates neurotransmitter release (including acetylcholine, serotonin, and norepinephrine) through GalR1, GalR2, and GalR3 receptors, influencing cognition, pain, feeding, mood, and neuroendocrine function. Used in neuroscience research for studying neuropeptide signaling, Alzheimer's disease, epilepsy, and depression.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2497
Molecular Weight	4488.964 Da
Molecular Formula	C198H312N62O58
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

TKEKRGWTLNSAGYLLGPHAIDNHRSFSDKHGLTGKRELP

Three-Letter Code:

H-Thr-Lys-Glu-Lys-Arg-Gly-Trp-Thr-Leu-Asn-Ser-Ala-Gly-Tyr-Leu-Leu-Gly-Pro-His-Ala-Ile-Asp-Asn-His-Arg-Ser-Phe-Ser-Asp-Lys-His-Gly-Leu-Thr-Gly-Lys-Arg-Glu-Leu-Pro-OH

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Galanin Receptors (GalR1-3)
Research Area	Neuroscience
Sub-category	Galanin & Neuromodulation

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