

N-Acetyl Semax

PRODUCT DESCRIPTION

N-Acetyl Semax features N-terminal acetylation for enhanced resistance to aminopeptidase degradation. Retains core neuroprotective and nootropic mechanisms of Semax--BDNF/NGF upregulation, dopaminergic and serotonergic modulation--with extended functional half-life and improved bioavailability.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2885
CAS Number	N/A
Molecular Weight	~855.95 Da
Molecular Formula	C39H54N10O10S
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Ac-Met-Glu-His-Phe-Pro-Gly-Pro-OH

Three-Letter Code:

H-Met-{D-Glu}-{D-Thr}-Gly-{D-Leu}-{D-Sec}-His-{D-Ile}-{D-Ser}-Pro-{D-His}-{D-Glu}-Pro-{D-Arg}-{D-Pyl}-Gly-{D-Leu}-{D-Tyr}-Pro-{D-Arg}-{D-Pyl}-Pyl-His-OH

RESEARCH APPLICATIONS

Application	Neuroprotection
Biomarker Target	Neurotrophic Factors
Research Area	Neuroscience
Sub-category	Neuroprotection & Cognitive Enhancement

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