

N-Acetyl Semax Amide

PRODUCT DESCRIPTION

N-Acetyl Semax Amide bears both N-terminal acetylation and C-terminal amidation for maximal metabolic stability, BBB permeability, and circulating half-life. Maintains BDNF/NGF upregulation, MAPK/ERK and PI3K/Akt pathway activation, and dopaminergic/serotonergic/cholinergic modulation. Preferred variant for neurodegeneration and cognitive research.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2888
CAS Number	2920938-90-3
Molecular Weight	854.97 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-NH2

Three-Letter Code:

Ac-Met-Glu-His-Phe-Pro-Gly-Pro-NH2

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