

Humanin

PRODUCT DESCRIPTION

Humanin is a 24-amino-acid mitochondrial-derived peptide encoded in the 16S rRNA gene, discovered in surviving Alzheimer's neurons. Potent Bax inhibitor preventing mitochondria-mediated apoptosis. Cytoprotective against amyloid-beta toxicity. Endogenous levels decline with age--key research tool in aging biology and mitochondrial peptide signaling.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2896
CAS Number	330936-69-1
Molecular Weight	2687.30 Da
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

MAPRGFSCLLLLTSEIDLPKRRA (24aa)

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