
Humanin (Gly-HN) Peptide

Catalog Number: bs-0499P

AA Seq: Met-Ala-Pro-Arg-Gly-Phe-Ser-Cys-Leu-Leu-Leu-Leu-Thr-Gly-Glu-Ile-Asp-Leu-Pro-Val-Lys-Arg-Arg-Ala

Predicted MW: 2.657

Activity: Yes

Purification: HPLC

Storage: Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Humanin, an endogenous anti-apoptotic peptide against Alzheimer disease-related insults, consists of 24 amino acids. The secreted protein is a neuroprotective factor against death induced by several different types of Alzheimer's disease genes. Humanin protects neuronal cells from damage caused by Alzheimer's disease genes, specifically APP (amyloid precursor protein). Humanin acts as a ligand for formyl peptide receptor-like 1 (FPRL1) with APP and utilizes its neuroprotective effects by inhibiting FPRL1 access to APP. The peptide prevents Bax translocation from cytosol to mitochondria. Humanin expression levels may be dependent on defects in energy production in muscles with mitochondrial abnormalities. The peptide has been detected in muscles of patients with the mitochondrial disease chronic progressive external ophthalmoplegia (CPEO). Humanin is mainly expressed in the kidney, heart, liver, testis and skeletal muscles.

note="S->G(Site 14): Potentiates neuroprotective activity."

Sequence: Met-Ala-Pro-Arg-Gly-Phe-Ser-Cys-Leu-Leu-Leu-Leu-Thr-Gly-Glu-Ile-Asp-Leu-Pro-Val-Lys-Arg-Arg-Ala

MW:2657