

Recombinant Human Neurtin Protein

Product Information

Product Name	Cat#	Size
Recombinant Human Neurtin Protein	92126ES08	5 µg
	92126ES60	100 µg
	92126ES76	500 µg

Product Description

Neurtin also known as NRN1 and CPG15 is a neurotrophic factor, which is expressed in response to induction of neuronal activity by NGF, BDNF, NT3 and other neural stimulators. It promotes neurite outgrowth and especially branching of neuritic processes in primary hippocampal and cortical cells. Recombinant Human Neurtin is a covalently disulfide-linked homodimer, consisting of two 9.7 kDa polypeptide monomers, each containing 88 amino acid residues. It shares 99 % and 97 % a.a. sequence identity with murine and rat neurtin, respectively.

Product Properties

Synonyms	NRN1
Accession	Q9NPD7
GeneID	51299
Source	E.coli-derived Human Neurtin, Ala28-Asn115.
Molecular Weight	Approximately 19.4 kDa.
AA Sequence	AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSCTV TALTDCQEGA KDMWDKLRKE SKNLNIQGSF FELCGSGN
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using rat C6 cells is less than 25 ng/mL, corresponding to a specific activity of > 4.0 × 10 ⁴ IU/mg. Fully biologically active when compared to standard.
Endotoxin	< 0.1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20 °C for 1 year.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

3 months, -20 °C under sterile conditions after reconstitution.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!