

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	107-22
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 19.4 kDa, a disulfide-linked homodimeric protein containing two 88 amino acids.
Quantity:	5µg/20µg/1000µg
AA Sequence:	AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT YWEDFHSCTV TALTDCQEGA KDMWDKLRKE SKNLNIQGSF FELCGSGN
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. 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.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
Endotoxin:	Less than 0.1 EU/µg of rHuNeurtin as determined by LAL method.
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:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 12 months from date of receipt, -20 to -70 °C as supplied.● 1 month, 2 to 8 °C under sterile conditions after reconstitution.● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Human Neurtin

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.