



Recombinant Human Neurtin

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-420S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	51299
Synonyms:	CPG15, NRN1

Neurtin is a neurotrophic factor, which is expressed in response to induction of neuronal activity by NGF, BDNF, NT3, and other neural stimulators. It is expressed primarily in postmitotic-differentiating neurons of the developing nervous system and in neuronal structures related to synaptic plasticity in the adult nervous system. Neurtin acts as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation. Recombinant human Neurtin is a covalently disulfide-linked homodimer, consisting of two 9.72 kDa polypeptide monomers, each containing 88 amino acid residues.

Sequence

AGKCDAVFKG FSDCLLKLGD SMANYPQGLD DKTNIKTVCT
YWEDFHSTV TALTDCQEGA KDMWDKLRKE SKNLNIQGSF FELCGSGN

Database References

Protein RefSeq:	NP_057672.1
Uniprot ID:	Q9NPD7
mRNA RefSeq:	NM_016588.2

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Structural Information	disulphide-linked homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	88
MW:	9.72 kDa

Biological Activity: Determined by a cell proliferation using rat C6 cells. The ED50 for this effect is 20.0-30.0 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!