

Neuritin, human recombinant

CATALOG #:	7179-10	10 µg
	7179-50	50 µg
ALTERNATE NAMES:	CPG15, NRN1	
SOURCE:	E. Coli	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	9.72 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

Neuritin 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 post mitotic-differentiating neurons of the developing nervous system and in neuronal structures related to synaptic plasticity in the adult nervous system. Neuritin acts as a molecular mediator of neurite outgrowth, neuronal survival, and synaptic maturation. Recombinant human Neuritin is a covalently disulfide-linked homodimer, consisting of two 9.72 kDa polypeptide monomers, each containing 88 amino acid residues.

AMINO ACID SEQUENCE:

AGKCDAVFKG FSDCLKLGD SMANYPQGLD DKTNIQTVCT YWEDFHSCTV
TALTDCQEGA KDMWDKLRKE SKNLNIQGSF FELCGSGN

BIOLOGICAL ACTIVITY:

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

RELATED PRODUCTS:

- NGF-beta, human recombinant (**Cat. No. 4303R-10, 20, 1000**)
- NGF-beta, human recombinant (CHO) (**Cat. No. 4303-20, 1000**)
- NGF-beta, murine recombinant (**Cat. No. 4304-5, 10, 20, 1000**)
- Recombinant human ProNT-3 (**Cat. No. 4272-10, 50, 100**)
- Recombinant human ProNGF-3 (**Cat. No. 4274-10, 50, 100**)
- BDNF Antibody (**Cat. No. 5004- 100**)
- TrkA Antibody (**Cat. No. 3194- 100**)
- TrkA Blocking Peptide (**Cat. No. 3194BP- 50**)
- TrkB Antibody (**Cat. No. 3593- 100**)
- TrkB Blocking Peptide (**Cat. No. 3593BP- 50**)
- TrkA Antibody (**Cat. No. 3194- 100**)
- Active TrkB (**Cat. No. 7758- 100**)
- Phospho-TrkA Antibody (**Cat. No. 3503- 100**)

FOR RESEARCH USE ONLY! Not to be used in humans.