

## NT-3, Human Recombinant

<b>Catalog No.</b>	CRN500A CRN500B CRN500C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Name:</b>	Neurotrophin-3 (NT-3)		
<b>Alternate Names:</b>	Neurotrophic factor, Nerve growth factor-2, NGF-2, HDNF		
<b>Description:</b>	Recombinant Human NT-3 is a single, non-glycosylated polypeptide chain containing 119 amino acids and has a MW = 13.6 kDa.		
<b>Source:</b>	<i>E. coli</i>		
<b>Formulation:</b>	Lyophilized from a concentrated (1 mg/ml) sterile filtered solution in water containing no additives.		
<b>Purity:</b>	>98.0% as determined by RP-HPLC and SDS-PAGE		
<b>Endotoxin Level:</b>	<0.1 ng/µg of NT-3.		
<b>Biological Activity:</b>	Determined by the dose-dependant induction of choline acetyl transferase in rat basal forebrain primary septal culture. The ED <sub>50</sub> is between 20.0-50.0 ng/ml.		
<b>Amino Acid Sequence:</b>	The sequence of the first five N-terminal amino acids is Tyr-Ala-Glu-His-Lys.		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> First add sterile water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
<b>Storage &amp; Stability:</b>	Lyophilized NT-3 is stable at room temperature for 3 weeks, but it is recommended to store the product desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for future use at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. <b>Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.</b>		
<b>Protein Content:</b>	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.165 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of NT-3 as a Reference Standard.		

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