

Cdnf

Recombinant Rat Cerebral Dopamine Neurotrophic Factor

Catalog No.	CRR009A CRR009B CRR009C	Quantity:	5 µg 25 µg 1 mg
Alternate Names:	Armetl1		
Description:	<p>Cerebral dopamine neurotrophic factor (CDNF), also known as ARMET-like protein 1, is encoded by the CDNF gene in humans and is widely expressed in neuronal and non-neuronal tissues. CDNF is a novel neurotrophic factor with strong trophic activity on dopaminergic neurons comparable to that of glial cell line-derived neurotrophic factor (GDNF). Furthermore, it also prevents the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons. Research studies indicate that CDNF may be beneficial for the treatment of Parkinson's disease. Recombinant rat CDNF shares 81% and 87% aa sequence identity with human and mouse CDNF.</p> <p>Recombinant Rat CDNF is a single non-glycosylated polypeptide chain containing 163 amino acids.</p>		
Gene ID:	227526		
Source:	<i>E. coli</i>		
Molecular Weight:	18.8 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
Purity:	>97% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. It is able to enhance neurite outgrowth of E16-E18 rat embryonic cortical neurons when immobilized at 5 - 25 µg/mL on a nitrocellulose-coated microplate.		
Amino Acid Sequence:	QGLEAGVRSR ADCEVCKEFL NRFYNSLLTR GIDFSVDTIE EELISFCADT KGKENRLCY Y LGATKDSATK ILGEVTRPMS VHMPTVKICE KLKMDSQIC ELKYEKKLDL ESVDLWKMRV AELKQILHSW GEECRACA EK HDYVNLIEL APKYVETRPQ TEL		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. Avoid repeated freeze/thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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