

## Cdnf

### Recombinant Mouse Cerebral Dopamine Neurotrophic Factor

<b>Catalog No.</b>	CRM022A CRM022B CRM022C	<b>Quantity:</b>	5 µg 25 µg 1 mg
<b>Alternate Names:</b>	Armet1		
<b>Description:</b>	<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 mouse CDNF shares 81% and 87% aa sequence identity with human and rat CDNF.</p> <p>Recombinant Mouse CDNF is a single non-glycosylated polypeptide chain containing 163 amino acids.</p>		
<b>Gene ID:</b>	227526		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	18.5 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
<b>Purity:</b>	>97% by SDS-PAGE and HPLC analyses.		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<b>Biological Activity:</b>	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 - 30 µg/mL on a nitrocellulose-coated microplate.		
<b>Amino Acid Sequence:</b>	QGLEAGVGPR ADCEVCKEFL DRFYNSLLSR GIDFSADTIE KELLNFCSDA KGKENRLCY Y LGATTTDAATK ILGEVTRPMS VHIPAVKICE KLKMDSQIC ELKYGKKLDL ASVDLWKMRV AELKQILQRW GEECRACA EK SDYVNLIREL APKYVEIYPQ TEL		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze/thaw cycles.</b>		

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