

## Recombinant Mouse Cerebral Dopamine Neurotrophic Factor (Mouse CDNF)

### Product Information

Product Name	Cat#	Size
	92105ES08	5 µg
Recombinant Mouse Cerebral Dopamine Neurotrophic Factor (Mouse CDNF)	92105ES60	100 µg
	92105ES76	500 µg

### Product Description

Cerebral dopamine neurotrophic factor (CDNF), also known as ARMET-like protein 1, is a protein encoded by the CDNF gene and it is widely expressed in neuronal and non-neuronal tissues. Mature mouse CDNF shares 80%, 87%, 83% and 82% aa identity with human, rat, equine and bovine CDNF. The cerebral dopamine neurotrophic factor (CDNF) also is a novel neurotrophic factor with strong trophic activity on dopaminergic neurons comparable to that of glial cell line-derived neurotrophic factor (GDNF). By research, CDNF prevents the 6-hydroxydopamine (6-OHDA)-induced degeneration of dopaminergic neurons and it might be beneficial for the treatment of parkinson's disease.

### Product Properties

<b>Synonyms</b>	arginine-rich, ARMETL1, Conserved dopamine neurotrophic factor
<b>Accession</b>	Q8CC36
<b>GeneID</b>	227526
<b>Source</b>	E.coli-derived mouse CDNF protein, Gln25-Leu187.
<b>Molecular Weight</b>	Approximately 18.5 kDa.
<b>AA Sequence</b>	QGLEAGVGPR ADCEVCKEFL DRFYNSLLSR GIDFSADTIE KELLNFCSDA KGKENRLCYL LGATTDAATK ILGEVTRPMS VHIPAVKICE KLKKMDSQIC ELKYGKKLDL ASVDLWKMRV AELKQILQRW GEECRACA EKSDYVNLIREL APKYVEIYPQ TEL
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	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. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 0.1 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
<b>Reconstitution</b>	Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C . Further dilutions should be made in appropriate buffered solutions.

### Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!