

## CDNF Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75670
Synonyms:	Cerebral dopamine neurotrophic factor; CDNF; ARMETL1
Species:	Mouse
Source:	HEK293
Accession:	Q8CC36 (M1-L187)
Gene ID:	227526
Molecular Weight:	Approximately 20 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	CDNF (Cerebral Dopamine Neurotrophic Factor) emerges as a crucial trophic factor for dopamine neurons, exhibiting the ability to counteract the degeneration induced by 6-hydroxydopamine (6-OHDA) in dopaminergic neurons. Particularly notable is its capacity to restore dopaminergic function and shield against the degeneration of neurons in the substantia nigra when administered subsequent to 6-OHDA-induced lesions. This underscores the potential therapeutic relevance of CDNF in mitigating the detrimental effects of neurodegeneration in the context of dopaminergic neurons, offering promise for interventions aimed at preserving and restoring neural function.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA