

Animal-Free CDNF Protein, Mouse (His)

Cat. No.:	HY-P700166AF
Synonyms:	Cerebral dopamine neurotrophic factor; CDNF; ARMETL1
Species:	Mouse
Source:	E. coli
Accession:	Q8CC36 (Q25-L187)
Gene ID:	227526
Molecular Weight:	Approximately 19.47 kDa

PROPERTIES

AA Sequence	<p> M Q G L E A G V G P R A D C E V C K E F L D R F Y N S L L S R G I D F S A D T I E K E L L N F C S D A K G K E N R L C Y Y L G A T T D A A T K I L G E V T R P M S V H I P A V K I C E K L K K M D S Q I C E L K Y G K K L D L A S V D L W K M R V A E L K Q I L Q R W G E E C R A C A E K S D Y V N L I R E L A P K Y V E I Y P Q T E L </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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	<p>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.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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