

CDNF, Human recombinant protein
Cerebral dopamine neurotrophic factor, ARMETL1
Catalog # PBV10762r**Specification**

CDNF, Human recombinant protein - Product info

Primary Accession [Q49AH0](#)
Calculated MW **18.5 kDa KDa**

CDNF, Human recombinant protein - Additional Info

Gene ID **441549**
Gene Symbol **CDNF**
Other Names
Cerebral dopamine neurotrophic factor, ARMETL1

Gene Source **Human**
Source **E.coli**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **MQEAGGRPGA DCEVCKEFLN RFYKSLIDRG
VNFSLDTIEK ELISFCLDTK GKENRLCYL
GATKDAATKI LSEVTRPMSV HMPAMKICEK
LKKLDSQICE LKYEKTDLA SVDLRKMRVA
ELKQILHSWG EECRACAEKT DYVNLIQELA
PKYAATHPKT EL**

Target/Specificity
CDNF

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium Phosphate, pH 7.0.

CDNF, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CDNF, Human recombinant protein - Images

CDNF, Human recombinant protein - Background

CDNF is a secreted neurotrophic factor that is expressed in brain, neuronal and certain non-neuronal tissues. It has been shown to promote survival, growth and function of dopamine specific neurons. CDNF and its structural homolog MANF, each contain an N-terminal saposin-like lipid binding domain, and a carboxyl-terminal domain, which is not homologous to previously characterized protein structures. CDNF and MANF can prevent 6-OHDA induced degeneration of dopaminergic neurons by triggering survival pathways in a rat experimental model of Parkinson disease. Recombinant human CDNF is an 18.5 kDa protein consisting of 162 amino acids including 8 cysteine residues.

CDNF, Human recombinant protein - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DBJ databases.
Lindholm P., et al. Nature 448:73-77(2007).
Apostolou A., et al. Exp. Cell Res. 314:2454-2467(2008).
Parkash V., et al. Protein Eng. Des. Sel. 22:233-241(2009).