BioVision 8/13 For research use only

CDNF, Human Recombinant

CATALOG #: 7127-10 10 μg

7127-50 50 µg

ALTERNATE NAMES: Cerebral dopamine neurotrophic factor,

ARMETL1

SOURCE: E.coli

PURITY: ≥ 98% by SDS-PAGE gel and HPLC analyses

MOL. WEIGHT: 18.5 kDa

ENDOTOXIN LEVEL: < 0.1 ng/μg of protein (<1EU/μg).

FORM: Lyophilized

FORMULATION: Sterile filtered through a 0.2 micron filter.

Lyophilized from 10 mM Sodium Phosphate, pH

7.0.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and

store at -20°C to -80°C. Avoid repeated freezing

and thawing cycles.

RECONSTITUTION:

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.

DESCRIPTION:

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.

BIOLOGICAL ACTIVITY:

Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED $_{50}$ for this effect is 15-25 μ g/ml.

AMINO ACID SEQUENCE:

MQEAGGRPGA DCEVCKEFLN RFYKSLIDRG VNFSLDTIEK ELISFCLDTK GKENRLCYYL GATKDAATKI LSEVTRPMSV HMPAMKICEK LKKLDSQICE LKYEKTLDLA SVDLRKMRVA ELKQILHSWG EECRACAEKT DYVNLIQELA PKYAATHPKT EL

RELATED PRODUCTS:

- ProBDNF, human recombinant (Cat. No. 4273-10, 50, 1000)
- NGF-beta, human recombinant (Cat. No. 4303R-10, 20, 1000)
- NGF-beta, human recombinant (CHO) (Cat. No. 4303-20, 1000)
- NGF-beta, murine recombinant (Cat. No. 4304-5, 10, 20, 1000)
- Recombinant human ProNT-3 (Cat. No. 4272-10, 50, 100)
- Recombinant human ProNGF-3 (Cat. No. 4274-10, 50, 100)
- BDNF Antibody (Cat. No. 5004- 100)

FOR RESEARCH USE ONLY! Not to be used in humans.

