

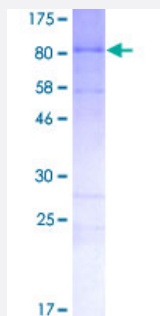
Full-Length

NEFL (Human) Recombinant Protein (P01)

Catalog # H00004747-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NEFL full-length ORF (NP_006149.2, 1 a.a. - 543 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSYSSSSGSLM
PSLENLDLSQVAAISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQNKVLEAELLVLRQKHSE
PSRFRALYEQIIRDLRLAAEDATNEKQALQGEREGLEETLRNLQARYEEEEVLSREDAEGRLMEAR
KGADEAALARAEELEKRLDLSMDEISFLKKVHEEEIAELQAQIYAQISVEMDVTKPDLAALKDIRA
QYEKLAANKMQNAEEWFKSRFTVLTESAAKNTDAVRAAKDEVSESRLLKAKTLEIEACRGMNE
ALEKQLQELEDKQNADISAMQDTINKLENELRTTKSEMARYLKEYQDLLNVKMALDIEIAAYRKLLE
GEETRLSFTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQEEQIEVEETIEA
AKAEEAKDEPPSEGEAEEEEKDKKEEAEEEEAAEEEEAAKEESEEAKEEEEGGEGEGEEETKE
AEEEEKKVEGAGEEQAAKKKD

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

87.9

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NEFL

Entrez GeneID
[4747](#)
GeneBank Accession#
[NM_006158.2](#)
Protein Accession#
[NP_006149.2](#)
Gene Name

NEFL

Gene Alias

CMT1F, CMT2E, FLJ53642, NF-L, NF68, NFL

Gene Description

neurofilament, light polypeptide

Omim ID
[162280 607684 607734](#)
Gene Ontology
[Hyperlink](#)
Gene Summary

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y. [provided by RefSeq]

Other Designations

light molecular weight neurofilament protein|neurofilament protein, light chain|neurofilament subunit NF-L|neurofilament triplet L protein|neurofilament, light polypeptide 68kDa|neurofilament-light

Publication Reference

- [Protein complexes from mouse and chick brain that interact with phospho-KXGS motif tau/microtubule associated protein antibody.](#)

D S Davies, A T Arthur, H L Aitken, B Crossett, C S Goldsbury.

Biology Open 2024 Feb; 13(2):bio060067.

Application: WB, N/A, N/A

- [Electrochemical Impedance Immunoassay for ALS-Associated Neurofilament Protein: Matrix Effect on the Immunoplatfrom.](#)

Omair Adil, Mohtashim H Shamsi.

Biosensors 2023 Feb; 13(2):247.

Application: Qual, Human, Human serum

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Multiple Sclerosis](#)
- [Parkinson disease](#)