

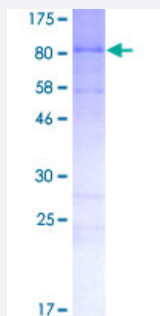
Full-Length

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
KGADEAALARAEELEKRLDLMDEISFLKKVHEEEIAELQAQIYAQISVEMDVTKPDLAALKDIRA
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](#)