

Recombinant Human NEFL Protein, His-tagged

Cat. No. NEFL-23H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NEFL Human Recombinant produced in E. coli is a single, non-glycosylated, polypeptide chain (2-543 a.a) containing 551 amino acids including a 9 a.a N-terminal His tag.
Species	Human
Source	E.coli
ProteinLength	2-543 a.a.
Description	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.
Form	Filtered White lyophilized (freeze-dried) powder.
Molecular Mass	62.5kDa
AA Sequence	MKHHHHHHASSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVS SSLSVRRSYSSSSGSLMPSENLDLSQVAAISNDLKSIRTQEKAQLQDLNDRFASFIE RVHELEQQNKVLEAELLVLRQKHSEPSRFRLYEQEIRDLRLAAEDATNEKQALQGE

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REGLEETLRNLQARYEEEEVLSREDAEGRLMEARKGADEAALARAELEKRIDSLMDEI
SFLKKVHEEEIAELQAQIQYAQISVEMDVTKPDLAALKDIRAQYEKLAAKNMQNAEE
WFKSRFTVLTESAAKNTDAVRAAKDEVSESRLLKAKTLEIEACRGMNEALEKQLQE
LEDKQNADISAMQDTINKLENELRTTKSEMARYLKEYQDLLNVKMALDIEIAAYRKLL
EGEETRLSFTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQE
EQIEVEETIEAAKAAEEAKDEPPSEGEAEKEEAEKEEAEKEEAEKEEAEKEEAEKEE
EEEEGGEGEGEGEETKEAEKEEKKVEGAGEEQAAKKKD.

Purity	Greater than 90.0% as determined by SDS-PAGE.
Stability	Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 centigrade for a limited period of time; it does not show any change after two weeks at 4 centigrade.
Storage	Store lyophilized protein at -20 centigrade.
Storage Buffer	NEFL filtered (0.4 µm) and lyophilized from 0.5 mg/mL solution in 85 mM, 15 mM Tris and Glycine, pH 8.5.
Dilutions	It is recommended to add 200 µL of deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.
Shipping	Shipped at Room temp.

GENE INFORMATION

Gene Name	NEFL neurofilament light [Homo sapiens (human)]
Official Symbol	NEFL
Synonyms	NEFL; neurofilament light; NFL; NF-L; NF68; CMT1F; CMT2E; CMTDIG; PPP1R110;

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neurofilament light polypeptide; light molecular weight neurofilament protein; neurofilament protein, light chain; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament, light polypeptide 68kDa; protein phosphatase 1, regulatory subunit 110

Gene ID 4747

mRNA Refseq NM_006158

Protein Refseq NP_006149

MIM 162280

UniProt ID P07196

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