

## Recombinant Human NEFL Protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	2-543 a.a.
<b>Description</b>	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.
<b>Form</b>	Filtered White lyophilized (freeze-dried) powder.
<b>Molecular Mass</b>	62.5kDa
<b>AA Sequence</b>	MKHHHHHHASSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVS SSLSVRRSYSSSSGSLMPSLENLDLSQVA AISNDLKSIRTQEKAQLQDLNDRFASFIE RVHELEQQNKVLEAELLVLRQKHSEPSRFRALYEQEIRDLRLAAEDATNEKQALQGE

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REGLEETLRNLQARYEEEEVLSREDAEGRLMEARKGADEAALARAELEKRIDSLMDEI  
 SFLKKVHEEEIAELQAQIQYAQISVEMDVTKPDLAALKDIRAQYEKLAAKNMQNAEE  
 WFKSRFTVLTESAANKNTDAVRAAKDEVSESRLLKAKTLEIEACRGMNEALEKQLQE  
 LEDKQNADISAMQDTINKLENELRTTKSEMARYLKEYQDLLNVKMALDIEIAAYRKLL  
 EGEETRLSFTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQE  
 EQIEVEETIEAAKAAEEAKDEPPSEGEAEKKKKEEAEKKEEAEKKEEAEKKEEAEK  
 EEEEGGEGEGEEETKEAEKKEEKKVEGAGEEQAAKKKD.

**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 μ 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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