

Recombinant Human NEFL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NEFL-526H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NEFL MS Standard C13 and N15-labeled recombinant protein (NP_006149) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	61.5 kDa
AA Sequence	MSSFSYEPYYSTSYKRRYVETPRVHISSVRSYGSTARSAYSSYSAPVSSSLSVRRSY SSSSGSLMPLENLDLSQVAAISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQ NKVLEAELLVLRQKHSEPSRFRALYEQEIRDLRLAAEDATNEKQALQGEREGLEETL RNLQARYEEVLSREDAEGRLMEARKGADEAALARAELEKRIDSLMDEISFLKKVHE EEIAELQAQIQYAQISVEMDVTKPDLSAALKDIRAQYEKLAAKNMQNAEEWFKSRFT VLTESAAKNTDAVRAAKDEVSESRLLKAKTLEIEACRGMNEALEKQLQELEDKQNA

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DISAMQDTINKLENELRRTTKSEMARYLKEYQDLLNVKMALDIEIAAYRKLLEGEETRLS
 FTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQEEQIEVEETI
 EAAKAEAAKDEPPSEGEAEKEEKDKEEAEEEEAAEEEEAAKEESEEAKEEEEEGGEG
 EEEGETKEAEKEEKVEGAGEEQAAKKKDTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [NEFL neurofilament light \[Homo sapiens \(human\) \]](#)

Official Symbol [NEFL](#)

Synonyms NEFL; neurofilament, light polypeptide; neurofilament, light polypeptide 68kDa; neurofilament light polypeptide; CMT1F; CMT2E; NF68; NFL; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; light molecular weight neurofilament protein; NF-L; FLJ53642;

Gene ID [4747](#)

mRNA Refseq [NM_006158](#)

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Protein Refseq NP_006149

MIM 162280

UniProt ID P07196

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