

Recombinant Full Length Human NEFL Protein, GST-tagged

Cat. No. NEFL-7008HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human full-length NEFL(1 a.a. - 543 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	543 amino acids
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	87.9 kDa
AA Sequence	MSSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSY SSSSGSLMPLENLDLSQ VAAISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQ NKVLEAELLVLRQKHSEPSRFRALYEQEIRDLRLAA EDATNEKQALQGEREGLEETL RNLQARYEEEEVLSREDAEGRLMEARKGADEAALARAEELEKRIDSLMDEISFLKK VH EEEIAELQAQIQYAQISVEMDVTKPDLAALKDIRAQYEKLAAKNMQNAEEWFKSRF TVLTESAANKNTDAVRA AKDEVSESRLLKAKTLEIEACRGMNEALEKQLQELEDKQ

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NADISAMQDTINKLENELRTTKSEMARYLKEYQDL LNVKMALDIEIAAYRKLLEGEET
 RLSFTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQEE QIEV
 EETIEAAKAEAAKDEPPSEGEAEKKKDKKEEAEKKKDKKEEAEKKKDKKEEAEKKKDKKEE
 GEGEEGEETKEAEE EEKKVEGAGEEQAACKKD

Applications ELISA; WB-Re; AP; Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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

GENE INFORMATION

Gene Name NEFL neurofilament, light polypeptide [Homo sapiens]

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

Gene ID 4747

mRNA Refseq NM_006158

Protein Refseq NP_006149

MIM 162280

UniProt ID P07196

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