

Recombinant Human NEFL, His-tagged

Cat. No. NEFL-26033TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 391-543 of Human 68kDa Neurofilament, with a N-terminal His tag. MWt 37kDa;
Species	Human
Source	E.coli
ProteinLength	391-543 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.
Conjugation	HIS
Form	Lyophilised:Reconstitution with 139 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids KLLEGEETRLSFTSVGSITSGYSQSSQVFGRSAYGGLQTS SYLMSTRSFPSYYTSH VQEEQIEVEETIEAAKAAEEAKD EPPSEGEAEKKDKEEAEEEEAAEEEEAAKEESE EAK EEEEGGEGEGEEETKEAEKKVEGAGEEQAAKKD

Sequence Similarities Belongs to the intermediate filament family.

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;

Gene ID 4747

mRNA Refseq NM_006158

Protein Refseq NP_006149

MIM 162280

Uniprot ID P07196

Chromosome Location 8p21.2

Pathway Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; CREB

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phosphorylation through the activation of CaMKII, organism-specific biosystem;
CREB phosphorylation through the activation of Ras, organism-specific biosystem;

Function

identical protein binding; protein C-terminus binding; protein binding; structural
constituent of cytoskeleton;

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