

Recombinant Human NEFL Protein (Ser2-Asp543), N-His-SUMO tagged, Animal-free, Carrier-free

Cat. No. NEFL-233H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEFL Protein (Ser2-Asp543) with N-His-SUMO tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ser2-Asp543
Description	Neurofilaments (NF) are assembled as heteropolymers, found exclusively in neurons, and serve as axonal scaffolding. They are composed of three subunits, including NF-L (68 kDa), NF-M (95 kDa), and NF-H (115 kDa), that are essential for axonal growth and maintenance. Elevated NF-L levels in serum and CSF (cerebrospinal fluid) have been correlated with axonal damage in Multiple Sclerosis patients, serving as a prognostic marker. In addition, plasma NF-L concentrations were highly significantly higher in patients with Alzheimer's disease.
Form	Lyophilized
Molecular Mass	The protein has a calculated MW of 73.91 kDa. The protein migrates as 75 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.

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Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	NEFL neurofilament, light polypeptide [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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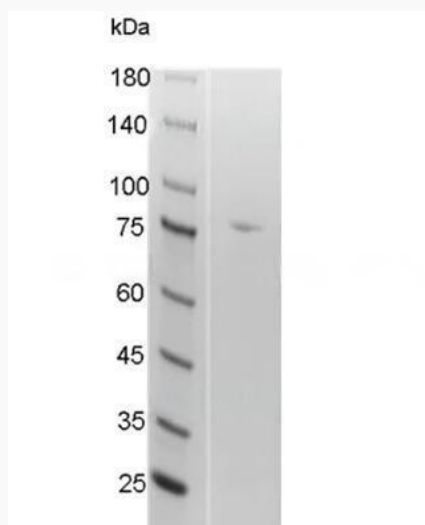
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Protein Refseq NP_006149

MIM 162280

UniProt ID P07196

**SDS-PAGE analysis
of recombinant
human NF-L.**



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