Human NF-L, His-SUMO Tag, E. coli

Catalog Number	LDG179PHE
Package	20 μg / 100 μg / Customized package

For full product information, images and publications, please visit our website.

Specifications

Species of Origin
Human

Expression System
Escherichia coli

Affinity Tag
His-SUMO Tag (N-term)

Storage Buffer
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

Purity
>95% as determined by SDS-PAGE analysis.

Molecular weight
The protein has a calculated MW of 73.91 kDa. The protein migrates as 75 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin Level
<0.1 EU per 1 μg of the protein by the LAL method.

Form
Lyophilized

Background

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Background

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.

Synonyms

68 kDa neurofilament protein, Neurofilament triplet L protein

Uniprot ID

P07196

Sequence Note

Ser2-Asp543

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O 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°C or lower for long term storage.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

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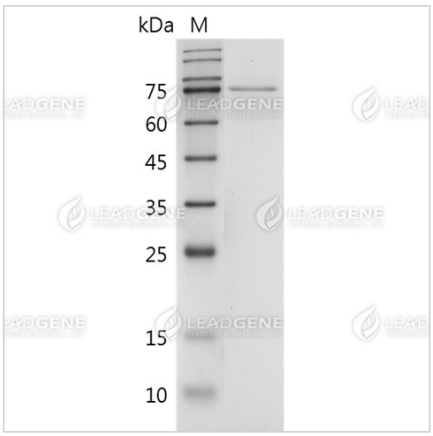
Image



SDS-PAGE analysis of
recombinant human NF-L.

Disclaimer : For Research Use or Further Manufacturing Only.

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