BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno

Date of issue: 10.05.2018

PRODUCT DATASHEET

Neurofilament light polypeptide Human E. coli

Cat. No.: RD172562100
Type: Recombinant
Size: 0.1mg
Source: E. coli
Species: Human

Description

Total 551 AA. MW: 62.5 kDa (calculated). UniProtKB acc.no. P07196 (Ser2-Asp543). N-terminal His-tag (9 extra AA). Protein identity confirmed by LC-MS/MS.

Other names

NF-L, 68 kDa neurofilament protein, Neurofilament triplet L protein, NEFL, NF68, NFL

Amino Acid sequence

MKHHHHHHAS SFSYEPYYST SYKRRYVETP RVHISSVRSG YSTARSAYSS YSAPVSSSLS VRRSYSSSSG SLMPSLENLD LSQVAAISND LKSIRTQEKA QLQDLNDRFA SFIERVHELE QQNKVLEAEL LVLRQKHSEP SRFRALYEQE IRDLRLAAED ATNEKQALQG EREGLEETLR NLQARYEEEV LSREDAEGRL MEARKGADEA ALARAELEKR IDSLMDEISF LKKVHEEEIA ELQAQIQYAQ ISVEMDVTKP DLSAALKDIR AQYEKLAAKN MQNAEEWFKS RFTVLTESAA KNTDAVRAAK DEVSESRRLL KAKTLEIEAC RGMNEALEKQ LQELEDKQNA DISAMQDTIN KLENELRTTK SEMARYLKEY QDLLNVKMAL DIEIAAYRKL LEGEETRLSF TSVGSITSGY SQSSQVFGRS AYGGLQTSSY LMSTRSFPSY YTSHVQEEQI EVEETIEAAK AEEAKDEPPS EGEAEEEEKD KEEAEEEEAA EEEEAAKEES EEAKEEEEGG EGEEGEETKE AEEEEKKVEG AGEEQAAKKK D

Purity

Purity as determined by densitometric image analysis: > 90%

Endotoxin

< 1.0 EU/µg

Formulation:

Filtered (0.4 µm) and lyophilized from 0.5 mg/ml solution in 15 mM Tris, 85 mM Glycine, pH 8.5.

Reconstituion:

Add 200 µl of deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

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Storage, Stability/Shelf Life
Store lyophilized protein at –80°C. Lyophilized protein remains stable until the expiry date when stored at –80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

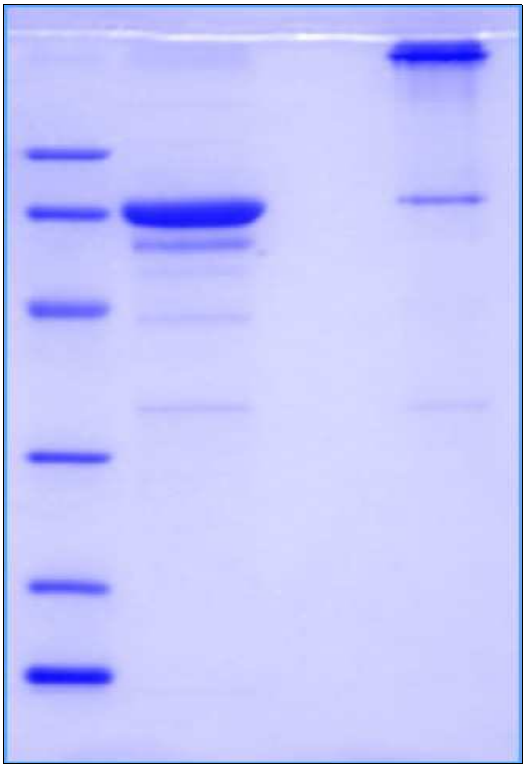
Quality control
BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL to determine quantity of endotoxin.

Applications
ELISA, Western blotting

Note
This product is intended for research use only.



12 % SDS-PAGE separation of Human NF-L (E.coli):
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. Reduced and boiled sample, 2.5 µg/lane
3. Non-reduced and non-boiled sample, 2.5 µg/lane

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