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Product name	Human NFL SIL-protein	
Catalog number	NF169536	
Uniprot ID	P07196	

# **Product description**

Neurofilament light chain (NFL) is one of the components of the neurofilaments, supramolecular structures found in the cytoplasm of the neurons.

Labelled NFL is a recombinant protein, stable isotope labelled (SIL), designed for use as an internal standard for quantitative analysis of NFL by mass spectrometry (MS).

Synonyms: Neurofilament triplet L protein

Other features

### Protein sequence

MSSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSSLSVRRSYSSSGSLMPSLENLDLSQVAAISNDLKSIRTQEKAQLQDLN DRFASFIERVHELEQQNKVLEAELLVLRQKHSEPSRFRALYEQEIRDLRLAAEDATNEKQALQGEREGLEETLRNLQARYEEEVLSREDAEGRLM EARKGADEAALARAELEKRIDSLMDEISFLKKVHEEEIAELQAQIQYAQISVEMDVTKPDLSAALKDIRAQYEKLAAKNMQNAEEWFKSRFTVL TESAAKNTDAVRAAKDEVSESRRLLKAKTLEIEACRGMNEALEKQLQELEDKQNADISAMQDTINKLENELRTTKSEMARYLKEYQDLLNVKM ALDIEIAAYRKLLEGEETRLSFTSVGSITSGYSQSSQVFGRSAYGGLQTSSYLMSTRSFPSYYTSHVQEEQIEVEETIEAAKAEEAKDEPPSEGEAEE EEKDKEEAEEEEAAEEEEAAKEESEEAKEEEEGGEGEEGEETKEAEEEEKKVEGAGEEQAAKKKD

### Product features and protocols

# Key features

1	Purity	>95% as determined by SDS-PAGE
2	Labelling	Uniform- <sup>15</sup> N
3	lsotopic incorporation	>99% as determined by LC-MS/MS analysis of digested SIL-protein

Predicted MW	61.5 kDa
Expression System	E.coli
Purification Tag	No tag
Protein content	Quantitation is carried out by Bradford protein assay using BSA as standard.
Formulation	Liquid - 50 mM Sodium Phosphate pH=7.0 buffer with 1 mM DTT

# **Product preparation**

For product preparation we recommend the following steps:

- 1. Thaw in ice
- 2. Vortex gently
- 3. Centrifuge briefly before opening

# Product storage

The product is liquid and shipped with dry ice.

#### Store at -80 °C upon receipt.

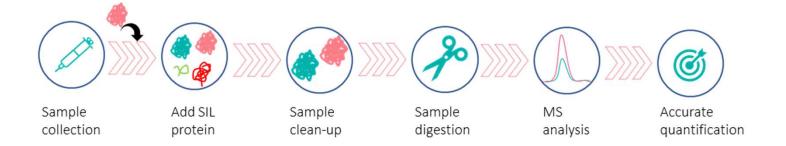
Once thawed, the protein can be preserved at 4°C for a few weeks.

#### Avoid multiple freeze-thaw cycles

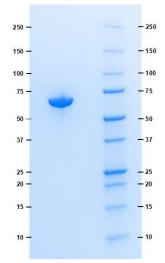


### How to use our product

SIL proteins allow to overcome the process variability since they are added at the very beginning of a sample preparation. This has potential positive impact on your analyte quantification, especially if the analyte interacts with other species commonly present within the matrix (1).



# Supporting information



SDS-PAGE gel analysis of NFL protein in Reduced/Heated conditions (RH) and stained with Coomassie blue.

### References

1. G.Picard, D. Lebert, et al. PSAQ standards for accurate MS-based quantification of proteins: from the concept to biomedical applications, J. Mass Spectrom. 2012, 47, 1353-1363

The product is intended for research use only. Not for diagnostic or therapeutic use.

### Legal

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