

## NEFH Protein, Human, Recombinant (His & Myc & SUMO)

### General Information

Synonyms:	KIAA0845;200 kDa neurofilament protein;Neurofilament heavy polypeptide;NEFH;NFH; Neurofilament triplet H protein;NF-H
Protein Construction:	1-413 aa
Species:	Human
Expression Host:	E. coli
Accession:	P12036
Molecular Weight:	65.6 kDa (predicted)
AA Sequence:	MMSFGGADALLGAPFAPLHGGSLSLHYALARKGGAGGTRSAAGSSSGFHSWTRTSVSSVSASPSRFRGAGA ASSTDSDLTSLNGPEGCMVAVATSRSEKEQLQALNDRFAGYIDKVRQLEAHNRSLEGEAAAALRQQAGRSA MGELYEREVREMRGAVLRLGAARGQLRLEQEHLLEDIAHVRLDDEARQREEAEAAARALARFAQEAEAA RVDLQKKAQALQECCGYLRRHHQEEVGELLGQIQGSGAAQAQMAETRDALKCDVTSALREIRAQLEGHAV QSTLQSEEWFRVRLDRLSEAAKVNTDAMRSAQEEITEYRRQLQARTTELEALKSTKDSLQRSELEDRHQAD IASYQEAIQQLDAELRNTKWEMAAQLREYQDLLNVKMALDIEIAAYRKLLEGEECRI

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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Neurofilaments usually contain three intermediate filament proteins: NEFL, NEFM, and NEFH which are involved in the maintenance of neuronal caliber. NEFH has an important function in mature axons that is not subserved by the two smaller NF proteins. May additionally cooperate with the neuronal intermediate filament proteins PRPH and INA to form neuronal filamentous networks.

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