

# Recombinant Full Length Human NEFM Protein, C-Flag-tagged

Cat. No. NEFM-134HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human NEFM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the medium neurofilament protein. This protein is commonly used as a biomarker of neuronal damage. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	102.3 kDa
<b>AA Sequence</b>	MSYTLDSLGNPSAYRRVTETRSSFVRVSGSPSSGFRSQSWSRGSPSTVSSSYKRS MLAPRLAYSSAMLSS AESSLDFSQSSLLNGGSGPGGDYKLSRSNEKEQLQGLND RFAGYIEKVHYLEQQNKEIEAEIQALRQKQ ASHAQLGDAYDQEIRELRATLEMVNHE KAQVQLDSDHLEEDIHRLKERFEEEARLRDDTEAAIRALRKDI EEASLVKVELDKKV QSLQDEVAFLRSNHEEEVADLLAQIQASHITVERKDYLKTDISTALKEIRSQLESH SD QNMHQAEWFKCRYAKLTEAAEQNKEAIRSAKEEIAEYRRQLQSKSIELESVRGTKE SLERQLSDIEE RHNHDLSSYQDTIQLENELRGTKWEMARHLREYQDLLNVKMALD

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IEIAAYRKLLERGEETRFSTFAGSIT GLYTHRPPITISSKIQKTKVEAPKLVQHKFVEE  
 IIEETKVEDEKSEMEEALTAITEELAVSMKEEKKE AAEKEEPEAEVEAAKSPV  
 KATAPEVKEEEGEKEEEEEQEEEEEEDEGAKSDQAEEGGSEKEGSSE KEEGEQE  
 EGETEAEAEEGEEAEAKKEKKVEEKSEEVATKEELVADAKVEKPEKAKSPVPKSPVE  
 EKGKSPV PKSPVEEKGKSPVPKSPVEEKGKSPVPKSPVEEKGKSPVSKSPVEEKA  
 KSPVPKSPVEEAKSKAEVKGGE QKEEEEKEVKEAPKEEKVEKKEEKPKDVPEKKK  
 AESPVKEEVAEAVVTITKSVKHLEKETKEEGKPLQQ EKEKEKAGGEGGSEEEGSD  
 KGAKGSRKEDIAVNGEVEGKEEVEQETKEKSGREEEKGVTNGLDLSPAD EKKG  
 GDKSEEKVVVTKTVEKITSEGGDGATKYITKSVTVTQKVEEHEETFEEKLVSTKKVEK  
 VTSHAIVK  
 EVTQSDSGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade.

**Concentration** >50 ug/mL as determined by microplate BCA method.

**Preparation** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Protein Pathways** Amyotrophic lateral sclerosis (ALS)

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** NEFM neurofilament medium chain [ Homo sapiens (human) ]

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<b>Official Symbol</b>	NEFM
<b>Synonyms</b>	NFM; NEF3; NF-M
<b>Gene ID</b>	4741
<b>mRNA Refseq</b>	NM_005382.2
<b>Protein Refseq</b>	NP_005373.2
<b>MIM</b>	162250
<b>UniProt ID</b>	P07197
Coomassie blue staining of purified NEFM protein.	

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