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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human NEFM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	102.3 kDa
AA Sequence	MSYTLDSLGNPSAYRRVTETRSSFSRVSGSPSSGFRSQSWSRGSPSTVSSSYKRS MLAPRLAYSSAMLSS AESSLDFSQSSSLLNGGSGPGGDYKLSRSNEKEQLQGLND RFAGYIEKVHYLEQQNKEIEAEIQALRQKQ ASHAQLGDAYDQEIRELRATLEMVNHE KAQVQLDSDHLEEDIHRLKERFEEEARLRDDTEAAIRALRKDI EEASLVKVELDKKV QSLQDEVAFLRSNHEEEVADLLAQIQASHITVERKDYLKTDISTALKEIRSQLESH SD QNMHQAEEWFKCRYAKLTEAAEQNKEAIRSAKEEIAEYRRQLQSKSIELESVRGTKE SLERQLSDIEE RHNHDLSSYQDTIQQLENELRGTKWEMARHLREYQDLLNVKMALD

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	IEIAAYRKLLEGEETRFSTFAGSIT GPLYTHRPPITISSKIQKTKVEAPKLKVQHKFVEE IIEETKVEDEKSEMEEALTAITEELAVSMKEEKKE AAEEKEEEPEAEEEEVAAKKSPV KATAPEVKEEEGEKEEEEGQEEEEEEDEGAKSDQAEEGGSEKEGSSE KEEGEQE EGETEAEAEGEEAEAKEEKKVEEKSEEVATKEELVADAKVEKPEKAKSPVPKSPVE EKGKSPV PKSPVEEKGKSPVPKSPVEEKGKSPVPKSPVEEKGKSPVSKSPVEEKA KSPVPKSPVEEAKSKAEVGKGE QKEEEEKEVKEAPKEEKVEKKEEKPKDVPEKKK AESPVKEEAVAEVVTITKSVKVHLEKETKEEGKPLQQ EKEKEKAGGEGGSEEEGSD KGAKGSRKEDIAVNGEVEGKEEVEQETKEKGSGREEEKGVVTNGLDLSPAD EKKG GDKSEEKVVVTKTVEKITSEGGDGATKYITKSVTVTQKVEEHEETFEEKLVSTKKVEK VTSHAIVK EVTQSDSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
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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Official Symbol	NEFM
Synonyms	NFM; NEF3; NF-M
Gene ID	4741
mRNA Refseq	NM_005382.2
Protein Refseq	NP_005373.2
MIM	162250
UniProt ID	P07197
	Coomassie blue staining of purified NEFM protein.

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