

Recombinant Human NEFH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NEFH-2216H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NEFH MS Standard C13 and N15-labeled recombinant protein (NP_066554) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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 heavy neurofilament protein. This protein is commonly used as a biomarker of neuronal damage and susceptibility to amyotrophic lateral sclerosis (ALS) has been associated with mutations in this gene.
Molecular Mass	111.7 kDa
AA Sequence	MMSFGGADALLGAPFAPLHGGGSLHYALARKGGAGGTRSAAGSSSGFHSWTRTS VSSVSASPSRFRGAGAASSTDLSLDTLSNGPEGCMVAVATSRSEKEQLQALNDRFA GYIDKVRQLEAHNRSLEGEAAALRQQQAGRSAMGELYEREVREMRGAVLRLGAAR GQLRLEQEHLLEDIAHVQRQLDDEARQREEAEAAARALARFAQEAEAAARVDLQKKA QALQEECGYLRRXHQE EVGELLGQIQGSGAAQAQMQAETRDALKCDVTSALREIRA QLEGHAVQSTLQSEEWFRVRLDRLSEAAKVNTDAMRSAQEEITEYRRQLQARTTEL

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EALKSTKDSLERQRSELEDHRHQADIASYQEAIQQLDAELRNTKWEMAAQLREYQDL
 LNVKMALDIEIAAYRKLLLEGEECRIGFGPIPFSLPEGLPKIPSVSTHIKVKSEEKIKVVE
 KSEKETVIVVEEQTEETQVTEEVTEEEKEAKEEEGKEEEGGEEEEEAEKGEEETKSP
 PAEEAASPEKEAKSPVKEEAKSPAEAKSPEKEEAKSPA EVKSPEKAKSPA KEEAKS
 PPEAKSPEKEEAKSPA EVKSPEKAKSPA KEEAKSPA EAKSPEKAKSPVKEEAKSLAE
 AKSPVKEEAKSPA EVKSPEKAKSPTKEEAKSPEKAKSPEKEEAKSPEKAKSPVKA EA
 KSPEKAKSPVKA EAKSPEKAKSPVKEEAKSPEKAKSPVKEEAKSPEKAKSPVKEEA
 KTPEKAKSPVKEEAKSPEKAKSPEKAKTLDVKSPEAKTPAKEEARSPADKFPEKAKS
 PVKEEVKSPEKAKSPLKEDAKAPEKEIPKKEEVKSPVKEEEKPQEVKVKEPPKKAEE
 EKAPATPKTEEEKDSKKEEAPKKEAPKPKVEEKKEPAVEKPKESKVEAKKEEAEDK
 KKVPTPEKEAPAKVEVKEDAKPKEKTEVAKKEPDDAKAKEPSKPAEKKEAAPEKKD
 TKEEKAKKPEEKPKTEAKAKEDDKTLSKEPSKPKAEKAEKSSSTDQKDSKPPEKATE
 DKAAGKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name NEFH neurofilament heavy [Homo sapiens (human)]

Official Symbol NEFH

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Synonyms	NEFH; neurofilament, heavy polypeptide; neurofilament, heavy polypeptide 200kDa; neurofilament heavy polypeptide; NF-H; 200 kDa neurofilament protein; neurofilament triplet H protein; NFH;
Gene ID	4744
mRNA Refseq	NM_021076
Protein Refseq	NP_066554
MIM	162230
UniProt ID	P12036
SDS-PAGE	