

Recombinant Human NEFH protein, His/SUMO-tagged

Cat. No. NEFH-1255H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NEFH (Lys671~Lys1020) protein was fused to His/SUMO-tag at the N-terminus and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Lys671-Lys1020
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.
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Molecular Mass	Predicted Molecular Mass: 52.3 kDa; Observed Molecular Mass: 54 kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

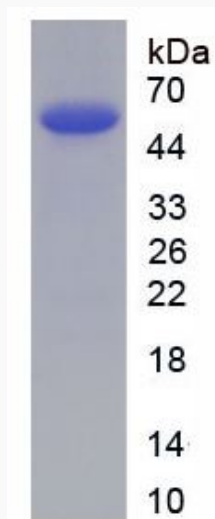
Gene Name	NEFH
Official Symbol	NEFH
Synonyms	NFH; CMT2CC
Gene ID	4744
mRNA Refseq	NM_021076.4
Protein Refseq	NP_066554.2
MIM	162230
UniProt ID	P12036

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SDS-PAGE of NEFH-
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