

Recombinant Rat Nefh Protein, His-tagged

Cat. No. Nefh-1821R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Nefh Protein (Leu238-Ala354) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Leu238-Ala354
Description	Enables protein-macromolecule adaptor activity and toxic substance binding activity. A structural constituent of cytoskeleton. Involved in several processes, including cellular response to estradiol stimulus; nervous system development; and ovarian follicle atresia. Located in several cellular components, including dendrite; intermediate filament; and perikaryon. Used to study congenital hypothyroidism. Biomarker of glaucoma; hypothyroidism; phenylketonuria; sciatic neuropathy; and transient cerebral ischemia. Human ortholog(s) of this gene implicated in Charcot-Marie-Tooth disease axonal type 2CC; amyotrophic lateral sclerosis; amyotrophic lateral sclerosis type 1; and monoclonal gammopathy of uncertain significance. Orthologous to human NEFH (neurofilament heavy chain).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.0 kDa Accurate Molecular Mass: 17 kDa

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Purity	> 90%
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.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
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 neurofilament, heavy polypeptide [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Nefh
Synonyms	NEFH; neurofilament, heavy polypeptide; neurofilament heavy polypeptide; NF-H; 200 kDa neurofilament protein; neurofilament triplet H protein; Nfh;
Gene ID	24587
mRNA Refseq	NM_012607

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Protein Refseq NP_036739

UniProt ID F1LRZ7



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