

## Recombinant Human NEFM protein, His-tagged

Cat. No. NEFM-6816H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NEFM aa. (Leu105~Gln287) fused with N-terminal His tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Leu105~Gln287
<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>	Freeze-dried powder
<b>Molecular Mass</b>	26kDa as determined by SDS-PAGE reducing conditions.
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 5.5.

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	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°C 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.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Concentration</b>	200ug/mL
<b>Storage buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	NEFM neurofilament medium [ <i>Homo sapiens</i> (human) ]
<b>Official Symbol</b>	NEFM
<b>Synonyms</b>	NFM; NEF3; NF-M; 160 kDa neurofilament protein; neurofilament 3; neurofilament triplet M protein; neurofilament, medium polypeptide 150kDa; neurofilament-3 (150 kD medium); neurofilament medium polypeptide
<b>Gene ID</b>	4741
<b>mRNA Refseq</b>	NM_001105541.1

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**Protein Refseq** NP\_001099011.1

**UniProt ID** Q9UK51

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