

# Recombinant Human NEF3 protein (GST tag)

Catalog Number:PDEH100124



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

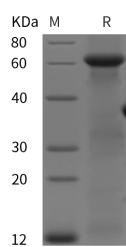
## Description

<b>Synonyms</b>	Neurofilament medium polypeptide;NF-M;160 kDa neurofilament protein;Neurofilament 3;Neurofilament triplet M protein;NEFM;NEF3;NFM
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Ser 2-Ser 358
<b>Accession</b>	P07197
<b>Calculated Molecular Weight</b>	64.2 kDa
<b>Observed molecular weight</b>	60 kDa
<b>Tag</b>	N-GST

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Human NF-M (neurofilament-medium length) is a 145?150 kDa phosphorylated glycoprotein that belongs to the type IV intermediate filament family. It is 915 amino acids in length and contains a 100 amino acid (aa) N-terminal globular region, a 320 aa alpha -helical rod, or central region, and a 500 aa globular tail. The rod region contains a series of heptad repeats that contribute to a coiled-coil interaction with an adjacent NF-M molecule, the first step in intermediate filament oligomerization. The C-terminus shows phosphorylation and O-linked glycosylation. Human NF-M aa 2?358, which includes most of the rod region, shares ~98% aa sequence identity with corresponding region of mouse, rat and canine NF-M.

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