

Native Bovine NEFM

Cat. No. NEFM-1520B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ultra Pure NeuroFilament Protein having a Molecular mass of 160 kDa produced from Bovine Spinal Cord.
Species	Bovine
Source	bovine Spinal Cord
Description	Neurofilaments are type IV intermediate filament heteropolymers that are composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and functionally maintain neuronal caliber and may also have a role in intracellular transport to axons and dendrites. NeuroFilament 160kDa is a medium neurofilament protein, which is commonly used as a biomarker of neuronal damage.
Form	The protein was lyophilized from a 1mg/ml solution containing 10mM sodium phosphate, pH-7.5, 2mM DTT, 6M urea and 1mM EDTA. Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.
Molecular Mass	103,210 Da
Purity	Greater than 98.0% as determined by RP-HPLC and SDS-PAGE.
Applications	Protein standard in 1D and 2D SDS gelelectrophoresisImmunoassays Immunization.
Notes	Small volumes of NEFM native protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge

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the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

Reconstitution It is recommended to reconstitute the lyophilized NEFM in sterile 18M Ω-cm H₂O.

Warning It is recommended to reconstitute the lyophilized NEFM in sterile 18M Omega -cm H₂O.

GENE INFORMATION

Gene Name NEFM neurofilament, medium polypeptide [*Bos taurus*]

Official Symbol NEFM

Synonyms NEF3; NF-M; neurofilament medium polypeptide; neurofilament 3; neurofilament M subunit; 160 kDa neurofilament protein; neurofilament triplet M protein; major neuronal intermediate filament subunit

Gene ID 281347

mRNA Refseq NM_001244145

Protein Refseq NP_001231074

Chromosome Location chromosome: 8

Pathway Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem

Function structural molecule activity

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