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Certificate of Analysis and Data Sheet

Native Bovine Neurofilament Medium Polypeptide

Catalog No.
228-11153

Source
Bovine Spinal Cord

Synonyms

Neurofilament medium polypeptide, NF-M, Neurofilament triplet M protein, 160 kDa neurofilament protein, Neurofilament 3, NEFM, NEF3, NFM.

Introduction

Neurofilaments are type IV intermediate filament heteropolymers that are composed of light, medium, and heavy chains. Neurofilaments comprise the exoskeleton 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.

Description

Ultra Pure NeuroFilament Protein having a Molecular mass of 160 kDa produced from Bovine Spinal Cord.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation

The protein was lyophilized from a 1mg/ml solution containing 10mM sodium phosphate, pH-7.5, 2mM DTT, 6M urea and 1mM EDTA.

Solubility

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

Stability

Lyophilized NEFM although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NEFM should be stored at 4°C between 2-7 days and for future use below -18°C. **Please prevent freeze-thaw cycles.**

Applications

Protein standard in 1D and 2D SDS gelelectrophoresis; Immunoassays; Immunization.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**