

Product Information

MemDX™ Membrane Protein Human NEFL (Neurofilament light chain) Expressed *in vitro* *E.coli* expression system, Full Length of Mature Protein

Cat. No.: **MPX0970K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human NEFL membrane protein expressed *in vitro* *E.coli* expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NEFL

Protein Length

Full Length of Mature Protein

Protein Class

Receptor

Molecular Weight

64.9kDa

Sequence

SSFSYEPYYSTSYKRRYVETPRVHISSVRSGYSTARSAYSSYSAPVSSLSVRRSYSSSSGSLMPSLENLDLSQVAISNDLKSI

Product Description

Expression Systems

in vitro *E.coli* expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Purity

>90% as determined by SDS-PAGE.

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NEFL

Full Name

Neurofilament light chain

Introduction

Neurofilaments are type IV intermediate filament heteropolymers composed of light, medium, and heavy chains. Neurofilaments comprise the axoskeleton and they functionally maintain the neuronal caliber. They may also play a role in intracellular transport to axons and dendrites. This gene encodes the light chain neurofilament protein. Mutations in this gene cause Charcot-Marie-Tooth disease types 1F (CMT1F) and 2E (CMT2E), disorders of the peripheral nervous system that are characterized by distinct neuropathies. A pseudogene has been identified on chromosome Y.

Alternative Names

NEFL; NFL; NF-L; NF68; CMT1F; CMT2E; CMTDIG; PPP1R110; neurofilament light polypeptide; light molecular weight neurofilament protein; neurofilament protein, light chain; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament, light polypeptide 68kDa; protein phosphatase 1, regulatory subunit 110; Neurofilament light chain

Gene ID

[4747](#)

UniProt ID

[P07196](#)