HUMAN NEFL PROTEIN, HFC TAG

Cat.#: 11455

Product Name: Human NEFL Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: CMT1F;CMT2E;CMTDIG;NF-L;NF68;NFL;PPP1R110

Target: NEFL

UNIPROT ID: P07196

Description: Recombinant Human NEFL with C-terminal human Fc tag

Background: 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. [provided by RefSeq, Oct 2008]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 87.5 kDa after removal of the signal peptide. The apparent molecular mass of NEFL-hFc is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: NEFL(Ser2-Asp543) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

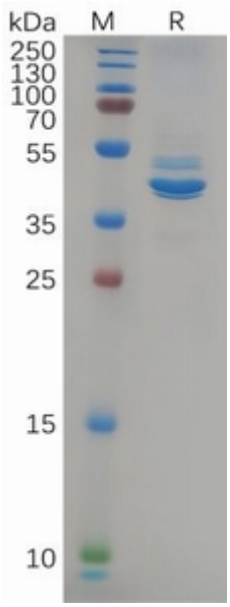

Figure 1. Human NEFL Protein, hFc Tag on SDS-PAGE under reducing condition.