

NEFL recombinant protein

Human NEFL (9-88) Protein, hFc Tag

CATALOG #
AAA47533

HOST
HEK293

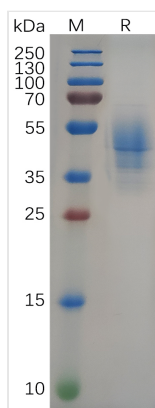
PRODUCT SYNONYMS

NEFL; Human NEFL (9-88) Protein; hFc Tag; CMT1F; CMT2E; CMTDIG; NF-L; NF68; NFL; PPP1R110; NEFL recombinant protein

PRODUCT SPECIFICATIONS

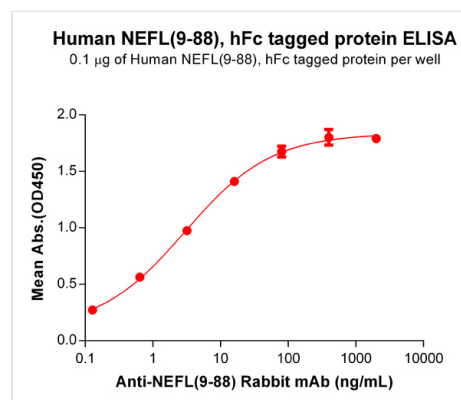
Host	HEK293
Purity/Purification	Test: SDS-PAGE & Coomassie blue staining; Specification: Target protein band (s) $\geq 95.0\%$; Result: Pass
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.
Visual Inspection	Test: Lyophilization; Specification: Dried white powder; Result: Pass Test: Vial Label; Specification: Label aligned and complete; Result: Pass Test: Bottle Sealing (manual check); Specification: Sealed tight; Result: Pass
Quantity Bioactivity	Test: Bradford Method; Specification: $\geq$ Specified quantity; Result: Pass
Other Properties	Test: pH; Specification: 7.4 ± 0.5 Result: Pass
Reconstitution	1. Before opening the tube cap, centrifuge the sample tube at 5000g for 3-5 minutes at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube. 2. Dissolved lyophilized protein sample in sterile water based on the recommended volume 20.79 μL 3. After adding sterile water, cover the lid and mix them by gently tapping the tube for 5-10 times. Note: Do not vortex or vigorously pipette sample.
Preparation and Storage	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.

IMAGES



SDS-PAGE

Human NEFL(9-88) Protein, hFc Tag on SDS-PAGE under reducing condition.



ELISA

ELISA plate pre-coated by 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) Human NEFL (9-88) Protein, hFc Tag (AAA47533) can bind Anti-NEFL(9-88) antibody(DM198), Rabbit mAb in a linear range of 0.128-80 ng/mL .

ADDITIONAL INFORMATION

Related Product Information for NEFL recombinant protein	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].
Product Categories/Family for NEFL recombinant protein	Bioactive Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	62511894
NCBI GeneID	4747
UniProt Accession #	P07196; Q16154; Q8IU72; B9ZVN2
NCBI Official Full Name	Neurofilament light polypeptide
NCBI Official Synonym Full Names	neurofilament, light polypeptide
NCBI Official Symbol	NEFL
NCBI Official Synonym Symbols	NFL; NF-L; NF68; CMT1F; CMT2E; PPP1R110
NCBI Protein Information	neurofilament light polypeptide; neurofilament subunit NF-L; neurofilament triplet L protein; neurofilament protein, light chain; neurofilament, light polypeptide 68kDa; light molecular weight neurofilament protein; protein phosphatase 1, regulatory subun
UniProt Protein Name	Neurofilament light polypeptide
UniProt Gene Name	NEFL
UniProt Synonym Gene Names	NF68; NFL; NF-L
UniProt Entry Name	NFL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.