



# Recombinant Human Neurofilament light polypeptide (NEFL)

<b>Product Code</b>	CSB-EP015688HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P07196
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>SSFSYEPYY STSYKRRYVE TPRVHISSVR SGYSTARSAY SSYSAPVSSS            LSVRRSYSSS SGSLMPSLEN LDLSQVAAS NDLKSIRTQE KAQLQDLNDR            FASFIERVHE LEQQNKVLEA ELLVLRQKHS EPSRFRALYE QEIRDLRLAA            EDATNEKQAL QGEREGLEET LRNLQARYEE EVLSREDAEG RLMEARKGAD            EAALARAELE KRIDSLMDEI SFLKKVHEEE IAE LQAQIQY AQISVEMDVT            KPDLAALKD IRAQYEKLA AKNMQNAEEWF KSRFTVLTES AAKNTDAVRA            AKDEVSESR LLKAKTLEIE ACRGMNEALE KQLQELEDKQ NADISAMQDT            INKLENELRT TKSEMARYLK EYQDLLNVKM ALDIEIAAYR KLEGEETRL            SFTSVGSITS GYSQSSQVFG RSAYGGLQTS SYLMSTRSFP SYTSHVQEE            QIEVEETIEA AKAEAKDEP PSEGEAE EEE KDKEEAE EEE AAE EEEAAKE            ESEEAKE EEE GGE GEEGEET KEAE EEE EKV EGAGEEQAAK KKD</p>
<b>Source</b>	E.coli
<b>Target Names</b>	NEFL
<b>Protein Names</b>	Recommended name: Neurofilament light polypeptide Short name= NF-L Alternative name(s): 68 kDa neurofilament protein Neurofilament triplet L protein
<b>Expression Region</b>	2-543
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.