



Recombinant Human Neurofilament light polypeptide (NEFL)

Product Code	CSB-MP015688HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P07196
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	SSFSYEPYY STSYKRRYVE TPRVHISSVR SGYSTARSAY SSYSAPVSSS LSVRRSYSSS SGSLMPSLEN LDLSQVAAS NDLKSIRTQE KAQLQDLNDR FASFIERVHE LEQQNKVLEA ELLVLRQKHS EPSRFRALYE QEIRDLRLAA EDATNEKQAL QGEREGLEET LRNLQARYEE EVLSREDAEG RLMEARKGAD EAALARAEL KRIDSLMDEI SFLKKVHEEE IAE LQAQIQY AQISVEMDVT KPDLSAALKD IRAQYEKLA KMQNAEEWF 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 ESEEAK EEE GGE GEE GEET KEAE EEE EKV EGAGEEQAAK KKD
Source	Mammalian cell
Target Names	NEFL
Protein Names	Recommended name: Neurofilament light polypeptide Short name= NF-L Alternative name(s): 68 kDa neurofilament protein Neurofilament triplet L protein
Expression Region	2-543
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	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.

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.