
Product Data Sheet

Product Name: NEFL Human
 Cat. No.: GP24029
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Neurofilament light polypeptide; NF-L; NEFL; NF68; NFL; 68 kDa neurofilament protein.		
Amino Acid Sequence	<p>MKHHHHHHAS SFSYEPYYST SYKRRYVETP RVHISSVRSR YSTARSAYSS YSAPVSSSLV VRRSYSSSSG SLMPLENLD LSQVAASND LKSIRTQEKA QLQDLNDRFA SFIERVHELE QQNKVLEAEL LVLRQKHSEP SRFRALYEQE IRDLRLAAED ATNEKQALQG EREGLEETLR NLQARYEEEEV LSREDAEGRL MEARKGADEA ALARAELEKR IDSLMDEISF LKKVHEEEIA ELQAQIQYQAQ ISVEMDVTKP DLSAALKDIR AQYEKLAASN MQNAEEWFKS RFTVLTESAA KNTDAVRAAK DEVSESRLL KAKTLEIEAC RGMNEALEKQ LQLEDKQNA DISAMQDTIN KLENELRTTK SEMARYLKEY QDLLNVKMAL DIEIAAYRKL LEGEETRLSF TSVGSITSGY SQSSQVFGRS AYGGGLQTSSY LMSTRSFPST YTSHVQEEQI EVEETIEAAK AEEAKDEPPS EGEEEEEKDK KEEAEEEEAA EEEEEAKEES EEAKEEEEEGG EGEEGEETKE AEEEEKKVEG AGEEQAQKKK D.</p>		
Solubility	It is recommended to add 200 µl of deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely.		
Formulation	NEFL filtered (0.4 µm) and lyophilized from 0.5mg/ml solution in 85 mM, 15 mM Tris and Glycine, pH 8.5.		

Introduction

NEFL or Neurofilament light polypeptide is a protein that is encoded through the NEFL gene. NEFL is correlated to a disease called Charcot-Marie-Tooth. The protein's light subunit is determined by immunoassays in the plasma and cerebrospinal fluid, if present, it can indicate on axonal damage in neurological diseases. By doing so, NEFL can act as a marker for Huntington's disease, Amyotrophic Lateral Sclerosis and multiple

Caution: Product has not been fully validated for medical applications. For research use only.

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sclerosis.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

NEFL Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (2-543 a.a) containing 551 amino acids including a 9 a.a N-terminal His tag. The total molecular mass is 62.5kDa (calculated).

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