

Neurofilament light polypeptide/NEFL, Human (His-SUMO, myc)

Cat. No.:	HY-P72265
Synonyms:	CMT1F; CMT2E; NEFL; NF68
Species:	Human
Source:	E. coli
Accession:	P07196 (S2-D543)
Gene ID:	4747
Molecular Weight:	Approximately 81.4kDa

PROPERTIES

AA Sequence	<pre> S S F S Y E P Y Y S T S Y K R R Y V E T P R V H I S S V R S G Y S T A R S A Y S S Y S A P V S S S L S V R R S Y S S S S G S L M P S L E N L D L S Q V A A I S N D L K S I R T Q E K A Q L Q D L N D R F A S F I E R V H E L E Q Q N K V L E A E L L V L R Q K H S E P S R F R A L Y E Q E I R D L R L A A E D A T N E K Q A L Q G E R E G L E E T L R N L Q A R Y E E E V L S R E D A E G R L M E A R K G A D E A A L A R A E L E K R I D S L M D E I S F L K K V H E E E I A E L Q A Q I Q Y A Q I S V E M D V T K P D L S A A L K D I R A Q Y E K L A A K N M Q N A E E W F K S R F T V L T E S A A K N T D A V R A A K D E V S E S R R L L K A K T L E I E A C R G M N E A L E K Q L Q E L E D K Q N A D I S A M Q D T I N K L E N E L R T T K S E M A R Y L K E Y Q D L L N V K M A L D I E I A A Y R K L L E G E E T R L S F T S V G S I T S G Y S Q S S Q V F G R S A Y G G L Q T S S Y L M S T R S F P S Y Y T S H V Q E E Q I E V E E T I E A A K A E E A K D E P P S E G E A E E E E K D K E E A E E E E A A E E E E A A K E E S E E A K E E E E G G E G E E G E E T K E A E E E E K K V E G A G E E Q A A K K K D </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, pH 7.4 or 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Neurofilament light polypeptide (NEFL) is a crucial component of neurofilaments, typically comprising a triad of intermediate filament proteins—NEFL, NEFM, and NEFH—that collectively contribute to the maintenance of neuronal caliber. NEFL may also engage in cooperative interactions with other neuronal intermediate filament proteins such as PRPH and INA, participating in the intricate assembly of neuronal filamentous networks. In addition to forming homodimers, NEFL forms heterodimers with NEFH or NEFM, and these complexes can further hetero-oligomerize. Furthermore, NEFL establishes interactions with specific proteins, including ARHGEF28 and TRIM2, highlighting its involvement in molecular networks that regulate various aspects of neuronal structure and function.

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

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