

ELAVL3 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71819
Synonyms:	ELAV like 3; ELAV like 4; ELAV like neuron specific RNA binding protein 3; ELAV like neuron specific RNA binding protein 4; ELAV like protein 3; ELAV like protein 4; ELAV-like protein 3; PLE21; PNEM
Species:	Human
Source:	P. pastoris
Accession:	Q14576 (1M-367A)
Gene ID:	1995
Molecular Weight:	Approximately 41.5 kDa

PROPERTIES

AA Sequence	M V T Q I L G A M E S Q V G G G P A G P A L P N G P L L G T N G A T D D S K T N L I V N Y L P Q N M T Q D E F K S L F G S I G D I E S C K L V R D K I T G Q S L G Y G F V N Y S D P N D A D K A I N T L N G L K L Q T K T I K V S Y A R P S S A S I R D A N L Y V S G L P K T M S Q K E M E Q L F S Q Y G R I I T S R I L V D Q V T G V S R G V G F I R F D K R I E A E E A I K G L N G Q K P L G A A E P I T V K F A N N P S Q K T G Q A L L T H L Y Q S S A R R Y A G P L H H Q T Q R F R L D N L L N M A Y G V K S P L S L I A R F S P I A I D G M S G L A G V G L S G G A A G A G W C I F V Y N L S P E A D E S V L W Q L F G P F G A V T N V K V I R D F T T N K C K G F G F V T M T N Y D E A A M A I A S L N G Y R L G E R V L Q V S F K T S K Q H K A
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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	The ELAVL3 protein serves as an RNA-binding protein, specifically binding to AU-rich element (ARE) sequences within target mRNAs, including VEGF mRNA. Additionally, it may interact with poly-A tracts through its third RNA recognition motif (RRM3). ELAVL3 is implicated in potential roles in neuronal differentiation and maintenance, suggesting its involvement in
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fundamental processes within the nervous system. Furthermore, it plays a role in the stabilization of GAP43 mRNA and contributes to spatial learning. The protein's functional repertoire extends to interaction with MAP1B light chain LC1, further underscoring its involvement in intricate molecular networks associated with RNA regulation and cellular processes related to neuronal functions and learning.

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

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