TXNL4A Protein, Human (His)

Cat. No.:	HY-P77269
Synonyms:	Thioredoxin-like protein 4A; DIM1 protein homolog; DIM1; TXNL4
Species:	Human
Source:	E. coli
Accession:	P83876 (M1-Y142)
Gene ID:	10907
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	M S Y M L P H L H N G W Q V D Q A I L S E E D R V V V I R F G H D W D P T C M K M D E V L Y S I A E K V K N F A V I Y L V D I T E V P D F N K M Y E L Y D P C T V M F F F R N K H I M I D L G T G N N N K I N W A M E D K Q E M V D I I E T V Y R G A R K G R G L V V S P K D Y S T K Y R Y
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris, 150 mM NaCl, pH 8.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	TXNL4A protein is integral to pre-mRNA splicing, serving as a critical component in the U5 snRNP and U4/U6-U5 tri-snRNP complexes, both essential for spliceosome assembly and the formation of the precatalytic spliceosome (spliceosome B complex). Within the U4/U6-U5 tri-snRNP complex, comprising U4, U6, and U5 snRNAs, TXNL4A collaborates with various proteins, including PRPF3, PRPF4, PRPF6, PRPF8, and others, to create a foundation for the precatalytic spliceosome. Its direct interaction with CD2BP2 and association with proteins like HNRPF, HNRPH2, NEDD9, and PQBP1 highlight TXNL4A's multifaceted involvement in the intricate machinery orchestrating pre-mRNA splicing. Additionally, TXNL4A interacts with ERBB4, showcasing its potential connections to broader cellular processes.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA