

DPYSL3 Protein, Human (His)

Cat. No.:	HY-P71546
Synonyms:	Collapsin response mediator protein 4; Collapsin response mediator protein 4 long; CRMP 4; CRMP-4; CRMP4; Dihydropyrimidinase like 3; Dihydropyrimidinase related protein 3; Dihydropyrimidinase-related protein 3; DPYL3_HUMAN; DPYSL3; DRP 3; DRP-3; DRP3; LCRMP; TUC4; ULIP 1; ULIP; ULIP-1; ULIP1; UNC 33 like phosphoprotein 1; Unc 33 like phosphoprotein; Unc-33-like phosphoprotein 1
Species:	Human
Source:	E. coli
Accession:	Q14195 (1M-570S)
Gene ID:	1809
Molecular Weight:	Approximately 66.0 kDa

PROPERTIES

AA Sequence	<div> <div>MSYQGKKNIPLIKQIGDNLIKGMTTVDDFFEKWREWADGKVNSFMVYMAYNGDIIAQEQTTIASQTNCPLASLGIDGTHYLASGDLQLSGRMSVIWDKAVISVGSDSDLVGAPLVVICQGRIKARRKMADGSPTRPNPPVGGRSNITSLS</div> <div>RITSDRLLIKVPGGVKTIEAQGTKAALAGGSCCDYALHVDKDLYQVSNTERMLEMGITGPYVTKVMSKSAWSKNWAKAAASAHCTFSTAQATGKMDENQFIWDPDAVKIVKIMLEDGNLHLHAVPRGMYDRNLHQSGFSL</div> <div>GGRIVNDDQSN GKMPIPGGITTMII DHVVPITHWNDSVKQLYEIFTCLGE EGHVLSRPEEADLISQARKKFVTSPPLSPDKAIGKDNFTAVAVTSTNAAKSAKNHQSAAEVTQGAGRFI GPFVFDLTTTPSGTQVDEGVR</div> <div>FYADIYMEDGDVHTHFQMPYEPESSLTEAYEVQNLIKDKGLGAI AQVHAELEAEAVFRAIGNVVFGEPITPTTPDYINSLIPEGTNGVEEIFNLYPRKGRYNI FEGMELRCSPFSDYVYKKGGT PAGSARSASKRIVAPP</div> </div>
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against solution in 20 mM Tris-HCl, 0.5 M NaCl, 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

DPYSL3 protein is indispensable for the signaling cascades initiated by class 3 semaphorins and the subsequent remodeling of the cytoskeleton. It actively contributes to axon guidance, neuronal growth cone collapse, and cell migration, underlining its multifaceted role in cellular processes. As part of homotetramers and heterotetramers with CRMP1, DPYSL2, DPYSL4, or DPYSL5, it forms intricate associations with related proteins, reflecting its involvement in complex cellular dynamics. Additionally, DPYSL3 interacts with synaptic vesicle protein 2 and the SH3A domain of intersectin, further highlighting its participation in molecular interactions crucial for cellular functions. Notably, DPYSL3 engages with FLNA, as demonstrated in its interaction with FLNA's calponin-homology (CH) domain 1 and filamin repeat 24, emphasizing its role in cytoskeletal rearrangements mediated by FLNA.

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

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