

DPYSL2 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71816
Synonyms:	Collapsin response mediator protein 2; Collapsin response mediator protein hCRMP 2; CRAM; CRMP 2; CRMP-2; N2A3; TOAD 64; TOAD64; ULIP 2 protein; ULIP-2; Ulip2
Species:	Human
Source:	P. pastoris
Accession:	Q16555 (M1-G572)
Gene ID:	1808
Molecular Weight:	Approximately 64.3 kDa

PROPERTIES

AA Sequence

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MSYQGKKNIP   RITSDRLLIK   GGIIVNDDQS   FYADIYMEDG
LIKQIGENLI   VPGGVKTIEA   HSRMVI PGGI   DVHTRFQMPD
QGMTSADDF   QGTKAALAGG   TTMIIDHVVP   EPGTSLLAFF
DQWREWADSK   SCCDYSLHVD   ISEWHKGIQE   EMEALVKDHG
VNSFLVYMAF   KDRFQLTDCQ   IYEVLSVIRD   IGAI AQVHAE
NGDIIAEEQQ   RILDLGITGP   EGHVLSRPEE   VEAEAVNRAI
TIANQTNCPL   YITKVMSSSS   AEVIAQARKK   GTVVYGEPI T
ASLGTDGSHY   WSKNWA KAAA   FVTSPPLSPD   PTTPDFLNSL
LSCGDLQVTG   SAHCTFN TAQ   KAVGKDNFTL   IPEGTNGTEE
RMSVIWDKAV   VTGKMDENQF   VAVTSTNAAK   VFNLYPRKGR
I AVGSDADLV   IWDPD SVKTI   SAKTHNSSLE   YNIFEGMECR
GSPLVVISQG   KIVLEDGTLH   VTEGSGRYIP   RKPFPDFVYK
RIKARSRLAE   LRGVPRGLYD   GPVCEVSVTP   KTVT PASSAK
TSPAKQQAPP   VRNLHQSGFS   LSGAQID DNI   PRRTTQRIVA
PPGGRANITS   LG
  
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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 ddH₂O.

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

DPYSL2 protein is actively involved in neuronal development, polarity, axon growth, guidance, growth cone collapse, and cell migration. Its crucial role extends to signaling by class 3 semaphorins and subsequent cytoskeletal remodeling. DPYSL2 forms homotetramers and heterotetramers with CRMP1, DPYSL3, DPYSL4, or DPYSL5. The interaction with CYFIP1/SRA1 occurs through its C-terminus, and DPYSL2 also interacts with HTR4, CLN6, and MICALL1. These protein interactions highlight DPYSL2's multifaceted involvement in various cellular processes critical for neuronal function and development.

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

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