

Recombinant Rat DPYL3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52489

Size: 10ug, 100ug

Protein Name: Dihydropyrimidinase-related protein 3 (DRP-3) (Collapsin response mediator protein 4) (CRMP-4) (TOAD-64/Ulip/CRMP) (TUC-4b)

Synonym: Dpysl3, Crmp4

UniProt ID: Q62952

UniProt Link: www.uniprot.org/uniprotkb/Q62952/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 570 AA

Molecular Weight: 62 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MSYQGKKNIPRITSDRLLIKGGRIVNDQSFYADIYMEDGLIKQIGDNLIVPGGVKTIEANGKMVMPPGG
IDVHTHFQMPYKGM TTVDDFFQGTKAALAGGTTMIIDHVVPEPESSLTEAYEKWREWADGKSCCDY
ALHVDITHWNSVKQEVQNLSKEKGVNSFMVY MAYKDLYQVSNTELYEIFTCLGELGAIAQVHAENG
DIIAQEQARMLEMGITGPEGHVL SRPEELEAEAVFRAITVASQTNCPLYVTKVMSKSAADLISQARKK
GNVVFGE PITASLGIDGTHYWSKNWAKAAAFVTSPPLSPDPTTPDYINSL LASGDLQLSGSAHCTFS
TAQKAIGKDNFTAIPEGTNGVEERMSVIWDKAVATGKMDENQFVAVTSTNAAKIFNLYPRKGRIAVG
SDSDLVIWDPDAVKIVSAKNHQSVAEYNIFEGMELRGAPLVVICQGKIMLEDGNLHVTQGAGR FIPCS
PFSDYVYKRIKARRKMADLHAVPRGMYDGPVFDLTTTPKGGTPAGSTRGSPTRPNPPVRNLHQSGF
SLSGTQVDEGVR SASKRIVAPPGGRSNITSLS

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Dihydropyrimidinase-related protein 3 (DRP-3) (Collapsin response mediator protein 4) (CRMP-4) (TOAD-64/Ulip/CRMP) (TUC-4b) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, neuronal growth cone collapse and cell migration.

Subcellular Localization: Cytoplasm . Cell projection, growth cone . Note=Colocalizes with synaptic vesicle protein 2 in the central region of the growth cone.

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.