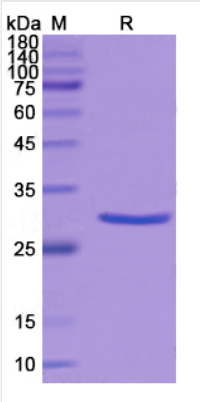
CRMP1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CRMP1, Recombinant Protein
Full Product Name	Recombinant Human CRMP1, N-His
Product Gene Name	CRMP1 recombinant protein
Product Synonym Names	ULIP-3; Inactive dihydropyrimidinase; CRMP1; DPYSL1; DRP-1; Dihydropyrimidinase-related protein 1; ULIP3; Collapsin response mediator protein 1; Unc-33-like phosphoprotein 3; CRMP-1
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	572
Sequence Positions	Met1-Val250
OMIM	602462
3D Structure	ModBase 3D Structure for Q14194
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CRMP1 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CRMP1 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for CRMP1 recombinant protein	MBS1574686 is a recombinant protein targeting CRMP1. Also known as Recombinant Human CRMP1, N-His. Host: E coli.
Other Notes	Small volumes of CRMP1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of CRMP1 recombinant protein
SDS PAGE for recombinant Human CRMP1 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CRMP1. It may not necessarily be applicable to this product.

NCBI GI #	3122031
NCBI GeneID	1400
NCBI Accession #	Q14194.1
UniProt Primary Accession #	Q14194
UniProt Secondary Accession #	Q13024; Q4W5F1; Q96TC8; A0EJG6
UniProt Related Accession #	Q14194
NCBI Official Full Name	Dihydropyrimidinase-related protein 1
NCBI Official Synonym Full Names	collapsin response mediator protein 1
NCBI Official Symbol	CRMP1
NCBI Official Synonym Symbols	DRP1; DRP-1; CRMP-1; DPYSL1; ULIP-3
UniProt Protein Name	Dihydropyrimidinase-related protein 1
UniProt Synonym Protein Names	Collapsin response mediator protein 1; CRMP-1; Unc-33-like phosphoprotein 3; ULIP-3
Protein Family	Dihydropyrimidinase-related protein
UniProt Gene Name	CRMP1
UniProt Synonym Gene Names	DPYSL1; ULIP3; DRP-1; CRMP-1; ULIP-3
UniProt Entry Name	DPYL1_HUMAN
NCBI Protein Information	dihydropyrimidinase-related protein 1; dihydropyrimidinase-like 1; unc-33-like phosphoprotein 3
NCBI Summary for CRMP1	This gene encodes a member of a family of cytosolic phosphoproteins expressed exclusively in the nervous system. The encoded protein is thought to be a part of the semaphorin signal transduction pathway implicated in semaphorin-induced growth cone collapse during neural development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2008]

UniProt Comments for CRMP1	CRMP-1: Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Cytoskeletal; Hydrolase Chromosomal Location of Human Ortholog: 4p16.1 Cellular Component: cell soma; cytoplasm; dendrite; microtubule organizing center; spindle; cytosol Molecular Function: hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in cyclic amides; protein binding Biological Process: axon guidance; nervous system development; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; pyrimidine base catabolic process
Research Articles on CRMP1	**1.** in pilocarpine-induced animal model of epilepsy, CRMP-1 dynamically decreased in a range of 2 months. Thus, our results indicate that CRMP-1 may be involved in the development of TLE
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