9051 Mira Mesa Blvd, #910094
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CRMP1 Human

Collapsin Response Mediator Protein-1 Human Recombinant
RCP0531

Product Overview

Name	CRMP1 Human

Description

Collapsin Response Mediator Protein-1 Human Recombinant

Accession (Primary)	Q14194

Synonyms

Dihydropyrimidinase-related protein 1, DRP-1, Collapsin response mediator protein 1, CRMP-1, CRMP1, DPYSL1, DRP1.

Introduction

Collapsin response mediator proteins (CRMPs) are cytosolic phosphoproteins involved in neuronal differentiation and axonal guidance. CRMP2 was previously shown to mediate the repulsive effect of Sema3A on axons and to participate in axonal specification. The X-ray crystal structure of murine CRMP1 was determined at 2.1 resolution and demonstrates that CRMP1 is a bilobed ‘lung-shaped’ protein forming a tetrameric assembly.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered clear solution.

Formulation

CRMP1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol, 1mM DTT and 0.2mM PMSF.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGSEF MSYQG KKSIPHITSD RLLIKGGRII NDDQSLYADV YLEDGLIKQI GENLIVPGGV KTIEANGRMV IPGGIDVNTY LQKPSQGMTA ADDFFQGTRA ALVGGTTMII DHVVPEPGSS LLTSFEKWHE AADTKSCCDY SLHVDITSWY DGVREELEVL VQDKGVNSFQ VYMAYKDVYQ MSDSQLYEAF

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TFLKGLGAVI LVHAENGDLI AQEQKRILEM GITGPEGHAL SRPEELEAEA VFRAITIAGR INCPVYITKV MSKSAADIIA LARKKGPLVF GEPIAASLGT DGTHYWSKNW AKAAAFVTSP PLSPDPTTPD YLTSLLACGD LQVTGSGHCP YSTAQKAVGK DNFTLIPEGV NGIEERMTVV WDKAVATGKM DENQFVAVTS TNAAKIFNLY PRKGRIAVGS DADVVIWDPD KLKTITAKSH KSAVEYNIFE GMECHGSPLV VISQGKIVFE DGNINVNKGM GRFIPRKAFP EHLYQRVKIR NKVFGLQGVS RGMYDGPVYE VPATPKYATP APSAKSSPSK HQPPPIRNLH QSNFSLSGAQ IDDNNPRRTG HRIVAPPGGR SNITSLG.

Precautions

CRMP1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q14194)