
Product Data Sheet

Product Name: CRMP1 Mouse
 Cat. No.: GP23230
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Dihydropyrimidinase-related protein 1; DRP-1; Collapsin response mediator protein 1; CRMP-1; Unc-33-like phosphoprotein 3; ULIP-3.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSEFMSHQG KKSIPHITSD RLLIRGGRII NDDQSFYADV YLEDGLIKQI GENLIVPGGV KTIEANGRMV IPGGIDVNTY LQKPSQGMTS ADDFFQGTKA ALAGGTTMII DHVVPEPGSS LLTSFEKWHE AADTKSCCDY SLHVDITSWY DGVREELEVEL VQDKGVNSFQ VYMAYKDLYQ MSDSQLYEAF TFLKGLGAVI LVHAENGDLI AQEQRILEM GITGPEGHAL SRPEELEAEA VFRAIAIAGR INCPVYITKV MSKSAADIIA LARKKGPLVF GEPIAASLGT DGTHYWSKNW AKAAAFVTSP PLSPDPTTPD YLTSLLACGD LQVTGSGHCP YSTAQKAVGK DNFTLIPEGV NGIEERMTVV WDKAVATGKM DENQFVAVTS TNAAKIFNLY PRKGRIAVGS DADVVIWDPD KMKTTAKSH KSTVEYNIFE GMECHGSPLV VISQGKIVFE DGNISVSKGM GRFIPRKPFP EHLVQRVRIR SKVFLHSVS RGMVDGPVYE VPATPKHAAP APSAKSSPSK HQPPPIRNLH QSNFSLSGAQ IDDNPRRTG HRIVAPPGGR SNITSLG.</p>		
Formulation	CRMP1 protein solution (0.25mg/ml) contains 40% glycerol, 20mM Tris-HCl (pH 8.5), 0.2M NaCl & 0.1mM PMSF.		

Introduction

Collapsin response mediator proteins (CRMPs) are cytosolic phosphoproteins involved in neuronal differentiation as well as 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.

Stability

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

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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.

Background

CRMP1 Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 597 amino acids (1-572 a.a) and having a molecular mass of 64.8kDa. CRMP1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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