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**Product Data Sheet**


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Product Name: CRMP1 Human  
 Cat. No.: GP23229  
 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; CRMP1; DPYSL1; DRP1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH MGSEFMSYQG KKSIPHITSD RLLIKGGRII          NDDQSLYADV YLEDGLIKQI GENLIVPGGV KTIEANGRMV IPGGIDVNTY          LQKPSQGMTA ADDFFQGTRA ALVGGTTMII DHVVPEPGSS LLTSFEKWHE          AADTKSCCDY SLHVDITSWY DGVREELEVEL VQDKGVNSFQ VYMAYKDVYQ          MSDSQLYEAF TFLKGLGAVI LVHAENGDLI AQEQRILEM 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          EHLVYQVVKIR NKVFGVLQGVV RGMVDGPVYE VPATPKYATP APSAKSSPSK          HQPPPIRNLH QSNFSLSGAQ IDDNPRRTG HRIVAPPGGR SNITSLG.</p>		
Formulation	CRMP1 protein solution (1mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol, 1mM DTT and 0.2mM PMSF.		

**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 60kDa-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 Human 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 (Will appear as multiple bands on SDS-PAGE). CRMP1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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