Datasheet for ABIN7126009

CPD Protein (full length) (rho-1D4 tag)

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Overview

Quantity:	0.5 mg
Target:	CPD
Protein Characteristics:	full length
Origin:	CHO cells
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPD protein is labelled with rho-1D4 tag.
Application:	ELISA, Crystallization (Crys), SDS-PAGE (SDS), Western Blotting (WB), Functional Studies (Func)

Product Details

Sequence:	MATGIYSKTS DDEVFRYLAK AYASNHPIMK TGEPHCPGDE DETFKDGITN GAHWYDVEGG MQDYNYVWAN CFEITLELSC CKYPPASQLR QEWENNRESL ITLIEKVHIG IKGFVKDSVT GAGLENATIS VAGINHNITT GRFGDFHRLL IPGIYNLTAV STGYMPLTIH NIRVKEGPAT EMDFSLRPTV TSKVPDSTEA VATPGTVAVP NIPPGTSSSH QPIQPKDFHH HHFPDMEIFL RRFANEYPNI TRLYSLGKSV ESRELYVMEI SDNPGVHEPG EPEFKYIGNM HGNEVVGREL LLNLIEYLCK NFGTDPEVTD LVRSTRIHLM PSMNPDGYEK SQEGDSVSVV GRNNSNNFDL NRNFPDQFVT ITDPTQPETI AVMSWIKSYP FVLSANLHGG SLVVNYPFDD NEQGVATYSK SPDDAVFQQI ALSYSRENSQ MFQGRPCKDM SILNEYFLHG ITNGASWYNV PGGMQDWNYL QTNCFEVTIE LGCVKYPFEK ELPKYWEQNR RSLIQFMKQV HQGVKGFVLD ATDGRGILNA TLSVAEINHP VTTYKAGDYW RLLVPGTYKI TASARGYNPV TKNVTVRSEG AIQVNFTLVR SSTDANNESK KGKGASTSTD DSSDPTTKEF EALIKHLSAE NGLEGFMLSS SSDLALYRYH SYKDLSEFLR GLVMNYPHIT NLTTLGQSAE YRHIWSLEIS NKPNVSEPEE PKIRFVAGIH

	GNAPVGTELL LALAEFLCLN YKKNPVVTQL VDRTRIVIVP SLNPDGRERA QEKECTSKIG QTNARGKDLD TDFTSNASQP ETKAIIENLI QKQDFSLSIA LDGGSVLVTY PYDKPVQTVE NKETLKHLAS LYANNHPSMH MGQPSCPNKS DENIPGGVMR GAEWHSHLGS MKDYSVTYGH CPEITVYTSC CYFPSAAQLP ALWAENKRSL LSMLVEVHKG VHGLVKDKTG KPISKAVIVL NDGIKVHTKE GGYFHVLLAP GVHNINAIAE GYQQQHSQVF VHHDAASSVL IVFDTDNRIF GLPRELVVTV SGATMSALIL TACIIWCICS IKSNRHKDGF HRLRQHHDEY EDEIRMMSTG SKKSLLSHEF QDETDTEEET LYSSKH **Sequence without tag. The location of the tag depends on protein. You may also submit your preference when ordering.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • CHO Carboxypeptidase D (Metallocarboxypeptidase D) Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a custom-made protein and will be made for the first time for your order. This protein will be produced on the basis of on a Custom Service Project. We will make sure that every step in the production is successful from the design of the expression plasmid to the expression and purification of the final protein. Our experts in the lab will ensure that you receive a correctly folded protein. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot. 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot. 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxins have not been removed. Please contact us if you require an endotoxin-free version

Product Details

	of this product.
Grade:	Crystallography grade
Biological Activity Comment:	Protein has not been tested for activity yet.

Target Details

Target:	CPD
Alternative Name:	Carboxypeptidase D (Metallocarboxypeptidase D) (CPD Products)
UniProt:	G3HR95
Pathways:	Synaptic Membrane, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	150 mM NaCL, 20 mM NaH2PO4 pH 7.4, 10 % glycerol. Note: Isoelectric point of protein taken into account regarding pH .
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)