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CACNA1S Protein (AA 662-799) (His tag)



Image



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0.0000000		
Quantity:	1 mg	
Target:	CACNA1S	
Protein Characteristics:	AA 662-799	
Origin:	Human	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This CACNA1S protein is labelled with His tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	
Product Details		
Sequence:	DNLAEAESLT SAQKAKAEEK KRRKMSKGLP DKSEEEKSTM AKKLEQKPKG EGIPTTAKLK	
	IDEFESNVNE VKDPYPSADF PGDDEEDEPE IPLSPRPRPL AELQLKEKAV PIPEASSFFI	
	FSPTNKIRVL CHRIVNAT	
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.	
	 Human CACNA1S Protein (raised in Insect Cells) purified by multi-step, protein-specific 	
	process to ensure crystallization grade.	
	process to ensure crystallization grade.	
	process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis).	

made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization). When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. 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. Two step purification of proteins expressed in baculovirus infected SF9 insect cells: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. 0.22 µm filtered Protein is endotoxin free.

Purity: Sterility: Endotoxin Level: Grade: Crystallography grade

Target Details

Purification:

Target:	CACNA1S	
Alternative Name:	CACNA1S (CACNA1S Products)	
Background:	Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable	
	cells and are also involved in a variety of calcium-dependent processes, including muscle	
	contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division	
	and cell death. The isoform alpha-1S gives rise to L-type calcium currents. Long-lasting (L-type)	

rarget Details		
	calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, benzothiazepines, and by omega-agatoxin-IIIA (omega-Aga-IIIA). They are however insensitive to omega-conotoxin-GVIA (omega-CTx-GVIA) and omega-agatoxin-IVA (omega-Aga-IVA). Calcium channels containing the alpha-1S subunit play an important role in excitation-contraction coupling in skeletal muscle.	
Molecular Weight:	16.4 kDa Including tag.	
UniProt:	Q13698	
Pathways:	Skeletal Muscle Fiber Development	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process