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Datasheet for ABIN3131101 CALHM1 Protein (AA 202-348) (His tag)



Overview

Image

Overview	
Quantity:	1 mg
Target:	CALHM1
Protein Characteristics:	AA 202-348
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CALHM1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)
Product Details	
Sequence:	RSVRPCFTQV AFLKSKYWSH YIDIERKLFD ETCTEHAKAF AKVCIQQFFE AMNHDLELGH
	THGVLATATA TATATEAVQS PSDRTEEERE KLRGITDQGT MNRLLTSWHK CKPPLRLGQE
	APLMSNGWAG GEPRPPRKEV ATYFSKV
	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. Mouse Calhm1 Protein (raised in E. Coli) 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 made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	experts in the lab win choice that you receive a correctly rolade protein.

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	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.
Purification:	Two step purification of proteins expressed in bacterial culture:
	 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.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	CALHM1
Alternative Name:	Calhm1 (CALHM1 Products)
Background:	Pore-forming subunit of a voltage-gated ion channel required for sensory perception of sweet,
	bitter and umami tastes. Specifically present in type II taste bud cells, where it plays a central
	role in sweet, bitter and umami taste perception by inducing ATP release from the cell, ATP

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	voltage-gated and calcium-activated ion channel: mediates neuronal excitability in response to
	changes in extracellular Ca(2+) concentration. Has poor ion selectivity and forms a wide pore
	(around 14 Angstroms) that mediates permeation of Ca(2+), Na(+) and K(+), as well as
	permeation of monovalent anions. Acts as an activator of the ERK1 and ERK2 cascade.
	Triggers endoplasmic reticulum stress by reducing the calcium content of the endoplasmic
	reticulum. May indirectly control amyloid precursor protein (APP) proteolysis and aggregated
	amyloid-beta (Abeta) peptides levels in a Ca(2+) dependent manner.
	{EC0:0000269 PubMed:22711817, EC0:0000269 PubMed:23467090}.
Molecular Weight:	17.6 kDa Including tag.
UniProt:	D3Z291
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:	Protein has not been tested for activity yet. 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

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