antibodies

Datasheet for ABIN3095218 SLC26A5 Protein (AA 501-744) (His tag)



Overview

Image

Quantity:	1 mg
Target:	SLC26A5
Protein Characteristics:	AA 501-744
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC26A5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	YRTQSPSYKV LGKLPETDVY IDIDAYEEVK EIPGIKIFQI NAPIYYANSD LYSNALKRKT
	GVNPAVIMGA RRKAMRKYAK EVGNANMANA TVVKADAEVD GEDATKPEEE DGEVKYPPIV
	IKSTFPEEMQ RFMPPGDNVH TVILDFTQVN FIDSVGVKTL AGIVKEYGDV GIYVYLAGCS
	AQVVNDLTRN RFFENPALWE LLFHSIHDAV LGSQLREALA EQEASAPPSQ EDLEPNATPA TPEA
	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 SLC26A5 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.
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(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 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.<		
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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 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. Grade:Crystallography gradeCrystallography gradeTarget DetailsSLC26A5		made proteins from other companies is that there is no financial obligation in case the protein
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Endotoxin Level: Endotoxin has not been removed. Please contact us if you require endotoxin removal. Grade: Crystallography grade Target Details SLC26A5	Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Grade: Crystallography grade Target Details Target: SLC26A5	Sterility:	0.22 μm filtered
Target Details Target: SLC26A5	Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Target: SLC26A5	Grade:	Crystallography grade
Target: SLC26A5	Target Details	
Alternative Name: SLC26A5 (SLC26A5 Products)	Target:	SLC26A5
	Alternative Name:	SLC26A5 (SLC26A5 Products)

Background:	Motor protein that converts auditory stimuli to length changes in outer hair cells and mediates
	sound amplification in the mammalian hearing organ. Prestin is a bidirectional voltage-to-force
	converter, it can operate at microsecond rates. It uses cytoplasmic anions as extrinsic voltage

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	sensors, probably chloride and bicarbonate. After binding to a site with millimolar affinity, these
	anions are translocated across the membrane in response to changes in the transmembrane
	voltage. They move towards the extracellular surface following hyperpolarization, and towards
	the cytoplasmic side in response to depolarization. As a consequence, this translocation
	triggers conformational changes in the protein that ultimately alter its surface area in the plane
	of the plasma membrane. The area decreases when the anion is near the cytoplasmic face of
	the membrane (short state), and increases when the ion has crossed the membrane to the
	outer surface (long state). So, it acts as an incomplete transporter. It swings anions across the
	membrane, but does not allow these anions to dissociate and escape to the extracellular space.
	Salicylate, an inhibitor of outer hair cell motility, acts as competitive antagonist at the prestin
	anion-binding site (By similarity). {ECO:0000250}.
Molecular Weight:	27.9 kDa Including tag.
UniProt:	P58743
Pathways:	Sensory Perception of Sound, Dicarboxylic Acid Transport
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.

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Handling
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Expiry Date:

Unlimited (if stored properly)

Images



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

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