

Datasheet for ABIN5713838

**SLC26A5 Protein (AA 501-744) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	SLC26A5
Protein Characteristics:	AA 501-744
Origin:	Human
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC26A5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	YRTQSPSYKV LGKLPETDVY IDIDAYEEVK EIPGIKIFQI NAPIYYANS D LYSNALKRKT GVNPAVIMGA RRKAMRKYAK EVGNANMANA TVVKADAEVD GEDATKPEEE DGEVKYPPIV IKSTFPEEMQ RFMPPGDNVH TVILDFTQVN FIDSVGVKTL AGIVKEYGDV GIYVYLAGCS AQVVNDLTRN RFFENPALWE LLFHSIHDAV LGSQ LREALA EQEASAPPSQ EDLEPNATPA TPEA
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

Target:	SLC26A5
Alternative Name:	S26A5 ( <a href="#">SLC26A5 Products</a> )
Background:	Motor protein that converts auditory stimuli to length changes in outer hair cells and mediates

## Target Details

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 sensors, probably chloride and bicarbonate. After binding to a site with millimolar affinity, these anions are translocated across the mbrane in response to changes in the transmbane 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 mbrane. The area decreases when the anion is near the cytoplasmic face of the mbrane (short state), and increases when the ion has crossed the mbrane to the outer surface (long state). So, it acts as an incomplete transporter. It swings anions across the mbrane, 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 .

Molecular Weight:	28.96 kDa
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UniProt:	<a href="#">P58743</a>
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Pathways:	<a href="#">Sensory Perception of Sound</a> , <a href="#">Dicarboxylic Acid Transport</a>
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## Application Details

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

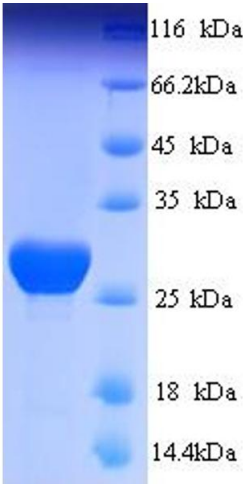
Format:	Liquid
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Concentration:	0.1-2 mg/mL
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Buffer:	20 mM Tris-HCl based buffer, pH 8.0
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Storage:	-80 °C, 4 °C, -20 °C
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Storage Comment:	Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
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**SDS-PAGE**

**Image 1.**