

Datasheet for ABIN7546848  
**SLC44A4 Protein (AA 1-710) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SLC44A4
Protein Characteristics:	AA 1-710
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC44A4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC44A4 Protein expressed in mammalian cells.
Sequence:	MGGKQRDEDD EAYGKPVKYD PSFRGPIKNR SCTDVICCVL FLLFILGYIV VGIVAWLYGD PRQVLYPRNS TGAYCGMGEN KDKPYLLYFN IFSCILSSNI ISVAENGLQC PTPQVCVSSC PEDPWTVGKN EFSQTVGEVF YTKNRNFCLP GVPWNMTVIT SLQQELCPSF LLPSAPALGR CFPWNTVTPP ALPGITNDTT IQQGISGLID SLNARDISVK IFEDFAQSWY WILVALGVAL VLSLLFILLL RLVAGPLVLV LILGVLGVLV YGIYYCWEEY RVLDRDKGASI SQLGFTTNLS AYQSVQETWL AALIVLAVLE AILLMLIFL RQRIRIAIAL LKEASKAVGQ MMSTMFYPLV TFVLLLICIA YWAMTALYLA TSGQPQYVLW ASNISPPGCE KVPINTSCNP TAHLVNSSCP GLMCFVFGYS SKGLIQRSVF NLQIYGV LGL FWTLNWVLAL GQCVLAGAFA SFYWAFHKPQ DIPTFPLISA FIRTLRYHTG SLAFGALILT LVQIARVILE YIDHKLRGVQ NPVARCIMCC FKCCLWCLEK FIKFLNRNAY IMIAIYGKNF CVSAKNAFML LMRNIVRVVV LDKVTDLLLF FGKLLVGGV GVLSFFFFSG RIPGLGKDFK SPHLNYYWLP IMTSILGAYV IASGFFSVFG MCVDTLFLCF LEDLERNNGS LDRPYYSKSKS LKILGKKNE APPDNKKRKK <b>Sequence without</b>

**tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: SLC44A4

Alternative Name: SLC44A4 ([SLC44A4 Products](#))

Background: Choline transporter-like protein 4 (Solute carrier family 44 member 4) (Thiamine pyrophosphate transporter 1) (hTPPT1),FUNCTION: Choline transporter that plays a role in the choline-acetylcholine system and is required to the efferent innervation of hair cells in the olivocochlear bundle for the maintenance of physiological function of outer hair cells and the protection of hair cells from acoustic injury (By similarity) (PubMed:23651124, PubMed:28013291). Also described as a thiamine pyrophosphate transporter in colon, may mediate the absorption of microbiota-generated thiamine pyrophosphate and contribute to host thiamine (vitamin B1) homeostasis (PubMed:24379411, PubMed:26741288). {ECO:0000250|UniProtKB:Q7T2B0,

## Target Details

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ECO:0000269|PubMed:23651124, ECO:0000269|PubMed:24379411,  
ECO:0000269|PubMed:26741288, ECO:0000269|PubMed:28013291}, FUNCTION: [Isoform 3]:  
Has also thiamine pyrophosphate transporter activity. {ECO:0000269|PubMed:24379411}.

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Molecular Weight: 79.3 kDa

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UniProt: [Q53GD3](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months