

Datasheet for ABIN7565246

SLC12A7 Protein (AA 1-1083) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC12A7
Protein Characteristics:	AA 1-1083
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC12A7 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc12a7 Protein expressed in mammalian cells.
Sequence:	<p>MPTNFTVVPV EARADGAGDE AAERTEEPES PESVDQTSPT PGDGNPRENS PFINNVEVER</p> <p>ESYFEGKNMA LFEEEMDSNP MVSSLLNKLA NYTNLSQGVV EHEEEDSRR REVKAPRMGT</p> <p>FIGVYLPCLQ NILGVILFLR LTWIVGAAGV MESFLIVAMC CTCTMLTAIS MSAIATNGVV</p> <p>PAGGSYYMIS RSLGPEFGGA VGLCFYLGTT FAGAMYILGT IEIFLTYISP SAAIFQAETA</p> <p>DGEAAALLNN MRVYGSCALA LMAVVVFVGV KYVNLKALVF LACVVLILA IYAGVIKTA</p> <p>APPDIPVCLL GNRTLNRNF DTCAMQVVS NGTVTTALWR LFCNGSSLGA TCDEYFAQNN</p> <p>VTEIQGIPGV ASGVFLDNLW STYSDKGAFV EKKGVSSVPV SEESRPGGLP YVLTDMITYF</p> <p>TMLVGIYFPS VTGIMAGSNR SGDLKDAQKS IPTGTILAIV TTSFIYLSI VLFGACIEGV</p> <p>VLRDKFGEAL QGNLVIGMLA WPSPWVIVIG SFFSTCGAGL QSLTGAPRL QAIARDGIIP</p> <p>FLQVFGHGKA NGEPTWALLL TALICETGIL IASLDSVAPI LSMFFLMCYM FVNLACAVQT</p> <p>LLRTPNWRPR FKFYHWTLSF LGMSLCLALM FICSWYYALF AMLIAGCIYK YIEYRGAEKE</p>

Product Details

WGDGIRGLSL NAARYALLRV EHGPPTHKNW RPQVLVMLNL DSEQCVKHPR LLSFTSQLKA
GKGLTIVGSV LEGTYLDKHV EAQRAEENIR SLMSAEKTKG FCQLVVSSNL RDGASHLIQS
AGLGGMKHNT VLMAWPEAWK EADNPFSWKN FVDTVRDTTA AHQALLVAKN IDLFPQNQER
FSDGNIDVWW IVHDGGMLML LPFLLRQHKV WRKCRMRIFT VAQVDDNSIQ MKKDLQMFLY
HLRISAEVEV VEMVENDISA FTYEKTLMME QRSQMLKQMQ LSKNEREREA QLIHDRNTAS
HTTATARTQA PPTPDKVQMT WTKEKLIAEK HRNKDTGPSG FKDLFSLKPD QSNVRRMHTA
VKLNGVVLNK SQDAQLVLLN MPGPPKSRQG DENYMEFLEV LTEGLNRVLL VRGGGREVIT IYS

Sequence without 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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

SLC12A7

Alternative Name:

Slc12a7 ([SLC12A7 Products](#))

Background:

Solute carrier family 12 member 7 (Electroneutral potassium-chloride cotransporter 4) (K-Cl cotransporter 4),FUNCTION: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:11551954, PubMed:12106695). May mediate K(+) uptake

Target Details

into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti (PubMed:11976689). May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (Probable). {ECO:0000269|PubMed:11551954, ECO:0000269|PubMed:11976689, ECO:0000269|PubMed:12106695, ECO:0000305}.

Molecular Weight: 119.5 kDa

UniProt: [Q9WVL3](#)

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 guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months