

Datasheet for ABIN7555397

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



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Overview

Quantity:	1 mg
Target:	SLC12A7
Protein Characteristics:	AA 1-1083
Origin:	Human
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 EAHADGGGDE TAERTEAPGT PEGPEPERPS PGDGNPRENS PFLNNVEVEQ</p> <p>ESFFEGKNMA LFEEEMDSNP MVSSLLNKLA NYTNLSQGVV EHEEDEESRR REAKAPRMGT</p> <p>FIGVYLPCLQ NILGVILFLR LTWIVGVAGV LESFLIVAMC CTCTMLTAIS MSAIATNGVV</p> <p>PAGGSYYMIS RSLGPEFGGA VGLCFYLGTT FAGAMYILGT IEIFLTYISP GAAIFQAEAA</p> <p>GGEEAAMLHN MRVYGTCTLV LMALVVFVGV KYVKNLALVF LACVLSILA IYAGVIKSAF</p> <p>DPPDIPVCLL GNRTLSRRSF DACVKAYGIH NNSATSALWG LFCNGSQPSA ACDEYFIQNN</p> <p>VTEIQGIPGA ASGVFLENLW STYAHAGAFV EKKGVPSVPV AEESRASALP YVLTDIAASF</p> <p>TLLVGIIYFPS VTGIMAGSNR SGDLKDAQKS IPTGTILAIV TTSFIYLSCI VLFGACIEGV</p> <p>VLRDKFGEAL QGNLVIGMLA WPSPWVIVIG SFFSTCGAGL QSLTGAPRL QAIARDGIVP</p> <p>FLQVFGHGKA NGEPTWALLL TVLICETGIL IASLDSVAPI LSMFFLMCYL FVNLCACAVQT</p> <p>LLRTPNWRPR FKFYHWTLSF LGMSLCLALM FICSWYYALS AMLIAGCIYK YIEYRGAEKE</p>

WGDGIRGLSL NAARYALLRV EHGPPHTKNW RPQVLVMLNL DAEQAVKHPR LLSFTSQLKA
GKGLTIVGSV LEGTYLDKHM EAQRAEENIR SLMSTKTKG FCQLVVSSSL RDGMSHLIQS
AGLGGLKHNT VLMAWPASWK QEDNPFWSKN FVDTVRDTTA AHQALLVAKN VDSFPQNQER
FGGGHIDVWW IVHDGGMLML LPFLLRQHKV WRKCRMRIFT VAQVDDNSIQ MKKDLQMFLY
HLRISAEVEV VEMVENDISA FTYERTLMME QRSQMLKQMQ LSKNEQEREA QLIHDRNTAS
HTAAAARTQA PPTPDKVQMT WTREKLIAEK YRSRDTSLSG FKDLFSMKPD QSNVRRMHTA
VKLNGVVLNK SQDAQLVLLN MPGPPKNRQG DENYMEFLEV LTEGLNRVLL VRGGGREGVIT 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:10913127). May mediate K(+) uptake into Deiters' cells in

Target Details

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. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (By similarity). {ECO:0000250, ECO:0000269|PubMed:10913127}.

Molecular Weight: 119.1 kDa

UniProt: [Q9Y666](#)

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