

Datasheet for ABIN7555945

Solute Carrier Family 14 (Urea Transporter, Kidney) Member 2 (SLC14A2) (AA 1-920) protein (His tag)



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Overview

Quantity:	1 mg
Target:	Solute Carrier Family 14 (Urea Transporter, Kidney) Member 2 (SLC14A2)
Protein Characteristics:	AA 1-920
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Custom-made recombinant SLC14A2 Protein expressed in mammalian cells.
Sequence:	<p>MSDPHSSPLL PEPLSSRYKL YEAFTSPSW PSTSPDTHPA LPLEMPEEK DLRSSNEDSH IVKIEKLNER SKRKDDGVAH RDSAGQRCIC LSKAVGYLTG DMKEYRIWLK DKHLALQFID WVLRGTAQVM FINNPLSGLI IFIGLLIQNP WWTITGGLGT VVSTLTALAL GQDRSAIASG LHGYNGMLVG LLMAVFSEKL DYYWVLLFPV TFTAMSCPVL SSALNSIFSK WDLPVFTLFP NIAVTLYLAA TGHYNLFFPT TLVEPVSSVP NITWTEMEMP LLLQAIPLGV GQVYGCNDPW TGGVFLVALF ISSPLICLHA AIGSIVGLLA ALSVATPFET IYTGLWSYNC VLSCIAIGGM FYALTWQTHL LALICALFCA YMEAAISNIM SVVGPPGTW AFCLATIIFL LLTTNPAIF RLPLSKVTYP EANRIYYLTV KSGEEEKAPS GGGGEHPPTA GPKVEEGSEA VLSKHRVVFH IEWSSIRRRS KVFGEKGEHQE RQNKDPFPYR YRKPTVELLD LDTMEESSEI KVETNISKTS WIRSSMAASG KRVSALSYSI TGEMKECGEG LKDKSPVFQF FDWVLRGTSQ VMFVNNPLSG ILIILGLFIQ NPWWAISGCL GTIMSTLTAL ILSQDKSAIA AGFHGYNGVL VGLLMAVFSD KGDYYWVLLL PVIIMSMSCP ILSSALGTIF SKWDLPVFTL PFNITVTLYL AATGHYNLFF</p>

Product Details

PTLLQPASA MPNITWSEVQ VPLLLRAIPV GIGQVYGCDN PWTGGIFLIA LFISSPLICL
HAAIGSTMGM LAALTIATPF DSIYFGLCGF NSTLACIAIG GMFYVITWQT HLLAIACALF
AAYLGAALAN MLSVFLPPC TWPFCLSALT FLLLTTNPA IYKLPLSKVT YPEANRIYYL
SQERNRRASI ITKYQAYDVS **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.**

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

Target: Solute Carrier Family 14 (Urea Transporter, Kidney) Member 2 (SLC14A2)

Alternative Name: SLC14A2 ([SLC14A2 Products](#))

Background: Urea transporter 2 (Solute carrier family 14 member 2) (Urea transporter, kidney),FUNCTION: [Isoform 1]: Mediates the transport of urea driven by a concentration gradient across the cell membrane of the renal inner medullary collecting duct which is critical to the urinary concentrating mechanism. {ECO:0000269|PubMed:11502588, ECO:0000269|PubMed:17702749}., FUNCTION: [Isoform 2]: Mediates the transport of urea

Target Details

driven by a concentration gradient across the cell membrane of the kidney inner medullary collecting duct which is critical to the urinary concentrating mechanism.
{ECO:0000269|PubMed:8647271, ECO:0000269|PubMed:8997401}.

Molecular Weight: 101.2 kDa

UniProt: [Q15849](#)

Pathways: [Response to Water Deprivation](#)

Application Details

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.

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