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Datasheet for ABIN7559315

SLC22A12 Protein (AA 1-553) (His tag)

Overview

Quantity:	1 mg
Target:	SLC22A12
Protein Characteristics:	AA 1-553
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A12 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc22a12 Protein expressed in mammalian cells.
Sequence:	MAPELLDRV GGLGRFQLFQ TVALVTPILW VTTQNMLENF SAAVPHHRCW VPLLDNSTSQ ASIPGDLGPD VLLAVSIPPG PDQQPHQCLR FRQPQWQLTE SNATATNWSA AATEPCEDGW VYDHSTFRST IVTTWDLVCN SQALRPMAQS IFLAGILVGA AVCGHASDRF GRRRVLTSY LLVSVSGTAA AFMPTFPLYC LFRFLASAV AGVMMNTASL LMEWTSAGGS PLVMTLNALG FSFGQVLTGS VAYGVRSWRM LQLAVSAPFF LFFVYSWWLP ESARWLITVG KLDQGLQELQ RVAAVNRRKA EGDILTMEVL RSAMEEPPSR DKAGASLGT LHTPGLRHRT IISMLCWFAF GFTFYGLALD LQALGSNIFL LQALIGIVDF PVKTGSLLLI SRLGRRFCQV SFLVLPGLCI LSNILVPHGM GVLRSALAVL GLGCLGGAFT CITIFSELF PTVIRMTAVG LCQVAARGGA MLGPLVRLLG VYGSWMPLLV YGVVPVLSGL AALLLPETKN LPLPDTIQDI QKQSVKKVTH DTPDGSILMS TRL 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.

Product Details

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: SLC22A12

Alternative Name: Slc22a12 ([SLC22A12 Products](#))

Background: Solute carrier family 22 member 12 (Renal-specific transporter) (RST) (Urate anion exchanger 1) (URAT1) (Urate:anion antiporter SLC22A12),FUNCTION: Electroneutral antiporter that translocates urate across the apical membrane of proximal tubular cells in exchange for monovalent organic or inorganic anions (PubMed:14747372). Involved in renal reabsorption of urate and helps maintaining blood levels of uric acid (PubMed:14747372). Mediates urate uptake by an exchange with organic anions such as (S)-lactate and nicotinate, and inorganic anion Cl(-) (PubMed:14747372). Other inorganic anions such as Br(-), I(-) and NO3(-) may also act as counteranions that exchange for urate (By similarity). Also mediates orotate tubular uptake coupled with nicotinate efflux and to a lesser extent with lactate efflux, therefore displaying a potential role in orotate renal reabsorption. Orotate transport is Cl(-)-dependent (By similarity). {ECO:0000250|UniProtKB:Q96S37, ECO:0000269|PubMed:14747372}.

Target Details

Molecular Weight: 60.2 kDa

UniProt: [Q8CFZ5](#)

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