Datasheet for ABIN7555311

SLC22A6 Protein (AA 1-563) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC22A6
Protein Characteristics:	AA 1-563
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A6 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC22A6 Protein expressed in mammalian cells.
Sequence:	MAFNDLLQQV GGVGRFQQIQ VTLVVLPLLL MASHNTLQNF TAAIPTHHCR PPADANLSKN GGLEVWLPRD RQGQPESCLR FTSPQWGLPF LNGTEANGTG ATEPCTDGWI YDNSTFPSTI VTEWDLVCSH RALRQLAQSL YMVGVLLGAM VFGYLADRLG RRKVLILNYL QTAVSGTCAA FAPNFPIYCA FRLLSGMALA GISLNCMTLN VEWMPIHTRA CVGTLIGYVY SLGQFLLAGV AYAVPHWRHL QLLVSAPFFA FFIYSWFFIE SARWHSSSGR LDLTLRALQR VARINGKREE GAKLSMEVLR ASLQKELTMG KGQASAMELL RCPTLRHLFL CLSMLWFATS FAYYGLVMDL QGFGVSIYLI QVIFGAVDLP AKLVGFLVIN SLGRRPAQMA ALLLAGICIL LNGVIPQDQS IVRTSLAVLG KGCLAASFNC IFLYTGELYP TMIRQTGMGM GSTMARVGSI VSPLVSMTAE LYPSMPLFIY GAVPVAASAV TVLLPETLGQ PLPDTVQDLE SRWAPTQKEA GIYPRKGKQT RQQQEHQKYM VPLQASAQEK NGL **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:	SLC22A6
Alternative Name:	SLC22A6 (SLC22A6 Products)
Background:	Solute carrier family 22 member 6 (Organic anion transporter 1) (hOAT1) (PAH transporter) (hPAHT) (Renal organic anion transporter 1) (hROAT1),FUNCTION: Secondary active transporter that functions as a Na(+)-independent organic anion (OA)/dicarboxylate antiporter where the uptake of one molecule of OA into the cell is coupled with an efflux of one molecule of intracellular dicarboxylate such as 2-oxoglutarate or glutarate (PubMed:9950961, PubMed:11907186, PubMed:11669456, PubMed:14675047, PubMed:22108572, PubMed:23832370, PubMed:28534121). Mediates the uptake of OA across the basolateral side of proximal tubule epithelial cells, thereby contributing to the renal elimination of endogenous OA from the systemic circulation into the urine (PubMed:9887087). Functions as a biopterin transporters involved in the uptake and the secretion of coenzymes tetrahydrobiopterin (BH4), dihydrobiopterin (BH2) and sepiapterin to urine, thereby determining baseline levels of blood

Target Details

	biopterins (PubMed:28534121). Transports prostaglandin E2 (PGE2) and prostaglandin F2-alpha (PGF2-alpha) and may contribute to their renal excretion (PubMed:11907186). Also mediates the uptake of cyclic nucleotides such as cAMP and cGMP (PubMed:26377792). Involved in the transport of neuroactive tryptophan metabolites kynurenate (KYNA) and xanthurenate (XA) and may contribute to their secretion from the brain (PubMed:22108572, PubMed:23832370). May transport glutamate (PubMed:26377792). Also involved in the disposition of uremic toxins and potentially toxic xenobiotics by the renal organic anion secretory pathway, helping reduce their undesired toxicological effects on the body (PubMed:11669456, PubMed:14675047). Uremic toxins include the indoxyl sulfate (IS), hippurate/N-benzoylglycine (HA), indole acetate (IA), 3-carboxy-4- methyl-5-propyl-2-furanpropionate (CMPF) and urate (PubMed:14675047, PubMed:26377792). Xenobiotics include the mycotoxin ochratoxin (OTA) (PubMed:11669456). May also contribute to the transport of organic compounds in testes across the blood-testis-barrier (PubMed:35307651). {ECO:0000269|PubMed:11669456, ECO:0000269|PubMed:11907186, ECO:0000269|PubMed:14675047, ECO:0000269|PubMed:22108572, ECO:0000269|PubMed:23832370, ECO:0000269|PubMed:26377792, ECO:0000269|PubMed:28534121, ECO:0000269|PubMed:35307651, ECO:0000269|PubMed:9887087, ECO:0000269|PubMed:9950961}.
Molecular Weight:	61.8 kDa
UniProt:	Q4U2R8
Pathways:	Dicarboxylic Acid Transport

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months