Datasheet for ABIN7555382

SLC22A8 Protein (AA 1-542) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC22A8
Protein Characteristics:	AA 1-542
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC22A8 Protein expressed in mammalian cells.
Sequence:	MTFSEILDRV GSMGHFQFLH VAILGLPILN MANHNLLQIF TAATPVHHCR PPHNASTGPW VLPMGPNGKP ERCLRFVHPP NASLPNDTQR AMEPCLDGWV YNSTKDSIVT EWDLVCNSNK LKEMAQSIFM AGILIGGLVL GDLSDRFGRR PILTCSYLLL AASGSGAAFS PTFPIYMVFR FLCGFGISGI TLSTVILNVE WVPTRMRAIM STALGYCYTF GQFILPGLAY AIPQWRWLQL TVSIPFFVFF LSSWWTPESI RWLVLSGKSS KALKILRRVA VFNGKKEEGE RLSLEELKLN LQKEISLAKA KYTASDLFRI PMLRRMTFCL SLAWFATGFA YYSLAMGVEE FGVNLYILQI IFGGVDVPAK FITILSLSYL GRHTTQAAAL LLAGGAILAL TFVPLDLQTV RTVLAVFGKG CLSSSFSCLF LYTSELYPTV IRQTGMGVSN LWTRVGSMVS PLVKITGEVQ PFIPNIIYGI TALLGGSAAL FLPETLNQPL PETIEDLENW SLRAKKPKQE PEVEKASQRI PLQPHGPGLG SS **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:	SLC22A8
Alternative Name:	SLC22A8 (SLC22A8 Products)
Background:	Organic anion transporter 3 (hOAT3) (Organic anion/dicarboxylate exchanger) (Solute carrier family 22 member 8),FUNCTION: Functions as an organic anion/dicarboxylate exchanger that couples organic anion uptake indirectly to the sodium gradient (PubMed:14586168, PubMed:15644426, PubMed:15846473, PubMed:16455804, PubMed:31553721). Transports organic anions such as estrone 3-sulfate (E1S) and urate in exchange for dicarboxylates such as glutarate or ketoglutarate (2-oxoglutarate) (PubMed:14586168, PubMed:15846473, PubMed:15864504, PubMed:22108572, PubMed:23832370). Plays an important role in the excretion of endogenous and exogenous organic anions, especially from the kidney and the brain (PubMed:14586168, PubMed:15846473, PubMed:11306713). E1S transport is pH - and chloride-dependent and may also involve E1S/cGMP exchange (PubMed:26377792). Responsible for the transport of prostaglandin E2 (PGE2) and prostaglandin F2(alpha)

(PGF2(alpha)) in the basolateral side of the renal tubule (PubMed:11907186). Involved in the transport of neuroactive tryptophan metabolites kynurenate and xanthurenate (PubMed:22108572, PubMed:23832370). 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 biopterins (PubMed:28534121). May be involved in the basolateral transport of steviol, a metabolite of the popular sugar substitute stevioside (PubMed:15644426). May participate in the detoxification/ renal excretion of drugs and xenobiotics, such as the histamine H(2)-receptor antagonists fexofenadine and cimetidine, the antibiotic benzylpenicillin (PCG), the anionic herbicide 2,4-dichloro-phenoxyacetate (2,4-D), the diagnostic agent p-aminohippurate (PAH), the antiviral acyclovir (ACV), and the mycotoxin ochratoxin (OTA), by transporting these exogenous organic anions across the cell membrane in exchange for dicarboxylates such as 2-oxoglutarate (PubMed:15846473, PubMed:16455804, PubMed:11669456). Contributes to the renal uptake of potent uremic toxins (indoxyl sulfate (IS), indole acetate (IA), hippurate/N-benzoylglycine (HA) and 3-carboxy-4-methyl-5-propyl-2-furanpropionate (CMPF)), pravastatin, PCG, E1S and dehydroepiandrosterone sulfate (DHEAS), and is partly involved in the renal uptake of temocaprilat (an angiotensin-converting enzyme (ACE) inhibitor) (PubMed:14675047). May contribute to the release of cortisol in the adrenals (PubMed:15864504). Involved in one of the detoxification systems on the choroid plexus (CP), removes substrates such as E1S or taurocholate (TC), PCG, 2,4-D and PAH, from the cerebrospinal fluid (CSF) to the blood for eventual excretion in urine and bile (By similarity). Also contributes to the uptake of several other organic compounds such as the prostanoids prostaglandin E(2) and prostaglandin F(2-alpha), L-carnitine, and the therapeutic drugs allopurinol, 6-mercaptopurine (6-MP) and 5-fluorouracil (5-FU) (By similarity). Mediates the transport of PAH, PCG, and the statins pravastatin and pitavastatin, from the cerebrum into the blood circulation across the blood-brain barrier (BBB). In summary, plays a role in the efflux of drugs and xenobiotics, helping reduce their undesired toxicological effects on the body (By similarity). {ECO:0000250|UniProtKB:O88909, ECO:0000250|UniProtKB:Q9R1U7, ECO:0000269|PubMed:11306713, ECO:0000269|PubMed:11669456, ECO:0000269|PubMed:11907186, ECO:0000269|PubMed:14586168, ECO:0000269|PubMed:14675047, ECO:0000269|PubMed:15644426, ECO:0000269|PubMed:15846473, ECO:0000269|PubMed:15864504, ECO:0000269|PubMed:16455804, ECO:0000269|PubMed:22108572, ECO:0000269|PubMed:23832370, ECO:0000269|PubMed:26377792, ECO:0000269|PubMed:28534121, ECO:0000269|PubMed:31553721, ECO:0000303|PubMed:15864504}.

Target Details

Molecular Weight:	59.9 kDa
UniProt:	Q8TCC7

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

