

Datasheet for ABIN7555380

SLC22A5 Protein (AA 1-557) (His tag)



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Quantity:	1 mg
Target:	SLC22A5
Protein Characteristics:	AA 1-557
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC22A5 protein is labelled with His tag.

Product Details

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Purpose:	Custom-made recombinant SLC22A5 Protein expressed in mammalian cells.
Sequence:	MRDYDEVTAF LGEWGPFQRL IFFLLSASII PNGFTGLSSV FLIATPEHRC RVPDAANLSS
	AWRNHTVPLR LRDGREVPHS CRRYRLATIA NFSALGLEPG RDVDLGQLEQ ESCLDGWEFS
	QDVYLSTIVT EWNLVCEDDW KAPLTISLFF VGVLLGSFIS GQLSDRFGRK NVLFVTMGMQ
	TGFSFLQIFS KNFEMFVVLF VLVGMGQISN YVAAFVLGTE ILGKSVRIIF STLGVCIFYA
	FGYMVLPLFA YFIRDWRMLL VALTMPGVLC VALWWFIPES PRWLISQGRF EEAEVIIRKA
	AKANGIVVPS TIFDPSELQD LSSKKQQSHN ILDLLRTWNI RMVTIMSIML WMTISVGYFG
	LSLDTPNLHG DIFVNCFLSA MVEVPAYVLA WLLLQYLPRR YSMATALFLG GSVLLFMQLV
	PPDLYYLATV LVMVGKFGVT AAFSMVYVYT AELYPTVVRN MGVGVSSTAS RLGSILSPYF
	VYLGAYDRFL PYILMGSLTI LTAILTLFLP ESFGTPLPDT IDQMLRVKGM KHRKTPSHTR
	MLKDGQERPT ILKSTAF 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: SLC22A5 Alternative Name: SLC22A5 (SLC22A5 Products) Background: Organic cation/carnitine transporter 2 (High-affinity sodium-dependent carnitine cotransporter) (Solute carrier family 22 member 5), FUNCTION: Sodium-ion dependent, high affinity carnitine transporter. Involved in the active cellular uptake of carnitine. Transports one sodium ion with one molecule of carnitine (PubMed:10454528, PubMed:10525100, PubMed:10966938, PubMed:17509700, PubMed:20722056, PubMed:33124720). Also transports organic cations such as tetraethylammonium (TEA) without the involvement of sodium. Relative uptake activity

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ratio of carnitine to TEA is 11.3 (PubMed:10454528, PubMed:10525100, PubMed:10966938). In

contributing to intestinal homeostasis (PubMed:18005709). May also contribute to regulate the

intestinal epithelia, transports the quorum-sensing pentapeptide CSF (competence and

transport of organic compounds in testis across the blood-testis-barrier (Probable).

sporulation factor) from Bacillus Subtilis wich induces cytoprotective heat shock proteins

Target Details

Expiry Date:

12 months

rarget Details		
	{ECO:0000269 PubMed:10454528, ECO:0000269 PubMed:10525100,	
	ECO:0000269 PubMed:10966938, ECO:0000269 PubMed:17509700,	
	ECO:0000269 PubMed:18005709, ECO:0000269 PubMed:20722056,	
	ECO:0000305 PubMed:35307651}., FUNCTION: [Isoform 3]: Retained in the ER, unable to	
	perform carnitine uptake. {ECO:0000269 PubMed:17509700}.	
Molecular Weight:	62.8 kDa	
UniProt:	076082	
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.	