

Datasheet for ABIN7560062 SLC3A1 Protein (AA 1-685) (His tag)



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Quantity:	1 mg
Target:	SLC3A1
Protein Characteristics:	AA 1-685
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC3A1 protein is labelled with His tag.

Product Details

1 Toddot Details	
Purpose:	Custom-made recombinant Slc3a1 Protein expressed in mammalian cells.
Sequence:	MDEDKGKRDP IQMSLKGCRT NNGFVQNEDI PEQDPDPGSR DTPQPNAVSI PAPEEPHLKA
	VRPYAGMPKE VLFQFSGQAR YRVPREILFW LTVVSVFLLI GATIAIIVIS PKCLDWWQAG
	PIYQIYPRSF KDSDKDGNGD LKGIQEKLDY ITALNIKTLW ITSFYKSSLK DFRYAVEDFK
	EIDPIFGTMK DFENLVAAIH DKGLKLIIDF IPNHTSDKHP WFQSSRTRSG KYTDYYIWHN
	CTHVNGVTTP PNNWLSVYGN SSWHFDEVRK QCYFHQFLKE QPDLNFRNPA VQEEIKEIIT
	FWLSKGVDGF SFDAVKFLLE AKDLRNEIQV NTSQIPDTVT HYSELYHDFT TTQVGMHDIV
	RDFRQTMNQY SREPGRYRFM GAEASAESIE RTMMYYGLPF IQEADFPFNK YFTTIGTLSG
	HTVYEVITSW MENMPEGKWP NWMTGGPETP RLTSRVGSEY VNAMHMLLFT LPGTPITYYG
	EEIGMGDISV TNFNESYDST TLVSKSPMQW DNSSNAGFTE ANHTWLPTNS DYHTVNVDVQ
	KTQPSSALRL YQDLSLLHAT ELVLSRGWFC LLRDDSHSVV YTRELDGIDN VFLVVLNFGE
	SSTVLNLQGI ISDLPPELRI RLSTNSASKG SAVDTRAISL EKGEGLVLEH STKAPLHQQA
	AFRDRCFVSS RACYSSALDI LYSSC 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		
	SLC3A1	
Target:	SLC3A1 Slc3a1 (SLC3A1 Products)	
Target: Alternative Name:		
Target: Alternative Name:	Slc3a1 (SLC3A1 Products)	
Target: Alternative Name:	Slc3a1 (SLC3A1 Products) Amino acid transporter heavy chain SLC3A1 (D2) (Neutral and basic amino acid transport	
Target Details Target: Alternative Name: Background:	Slc3a1 (SLC3A1 Products) Amino acid transporter heavy chain SLC3A1 (D2) (Neutral and basic amino acid transport protein) (NBAT) (Solute carrier family 3 member 1) (b(0,+)-type amino acid transporter-related	
Target: Alternative Name:	Slc3a1 (SLC3A1 Products) Amino acid transporter heavy chain SLC3A1 (D2) (Neutral and basic amino acid transport protein) (NBAT) (Solute carrier family 3 member 1) (b(0,+)-type amino acid transporter-related heavy chain) (rBAT),FUNCTION: Acts as a chaperone that facilitates biogenesis and trafficking	
Target: Alternative Name:	Slc3a1 (SLC3A1 Products) Amino acid transporter heavy chain SLC3A1 (D2) (Neutral and basic amino acid transport protein) (NBAT) (Solute carrier family 3 member 1) (b(0,+)-type amino acid transporter-related heavy chain) (rBAT),FUNCTION: Acts as a chaperone that facilitates biogenesis and trafficking of functional transporter heteromers to the plasma membrane (By similarity)	
Target: Alternative Name:	Slc3a1 (SLC3A1 Products) Amino acid transporter heavy chain SLC3A1 (D2) (Neutral and basic amino acid transport protein) (NBAT) (Solute carrier family 3 member 1) (b(0,+)-type amino acid transporter-related heavy chain) (rBAT),FUNCTION: Acts as a chaperone that facilitates biogenesis and trafficking of functional transporter heteromers to the plasma membrane (By similarity) (PubMed:26739563). Associates with SLC7A9 to form a functional transporter complex that	

intracellular neutral amino acids. Substrate exchange is driven by high concentration of

Target Details

intracellular neutral amino acids and the intracellular reduction of L-cystine to L-cysteine. SLC7A9-SLC3A1 acts as a major transporter for reabsorption of L-cystine and dibasic amino acids across the brush border membrane in early proximal tubules (By similarity). Associates with SLC7A13 to form a functional complex that transports anionic and neutral amino acids via exchange or facilitated diffusion. SLC7A13-SLC3A1 may act as a major transporter for L-cystine in late proximal tubules, ensuring its reabsorption from the luminal fluid in exchange for cytosolic L-glutamate or L-aspartate (PubMed:26739563). {ECO:0000250|UniProtKB:Q07837, ECO:0000269|PubMed:26739563}.

Molecular Weight:

78.1 kDa

UniProt:

Q91WV7

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

12 months

Handling

Expiry Date:

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.