

Datasheet for ABIN7555399

SLC20A1 Protein (AA 1-679) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | SLC20A1 |
| Protein Characteristics: | AA 1-679 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SLC20A1 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant SLC20A1 Protein expressed in mammalian cells. |
| Sequence: | <p>MATLITSTTA ATAASGPLVD YLWMLILGFI IAFVLAFSVG ANDVANSFGT AVGSGVVTLK</p> <p>QACILASIFE TVGSLVLLGAK VSETIRKGLI DVEMYNSTQG LLMAGSVSAM FGSVWQLVA</p> <p>SFLKLPISGT HCIVGATIGF SLVAKGQEGV KWSELIKIVM SWFVSPLLSG MSGILFFLV</p> <p>RAFILHKADP VPNGLRALPV FYACTVGINL FSIMYTGAPL LGFDKLPLWG TILISVGCAV</p> <p>FCALIVWFFV CPRMKRKIER EIKCSPSESP LMEKKNSLKE DHEETKLSVG DIENKHPVSE</p> <p>VGPATVPLQA VVEERTVSFK LGDLEEAPER ERLPSVDLKE ETSIDSTVNG AVQLPNGNLV</p> <p>QFSQAVSNQI NSSGHYQYHT VHKDSGLYKE LLHKLHLAKV GDCMGDSGDK PLRRNNSYTS</p> <p>YTMAICGMPL DSFRAKEGEQ KGEEMEKLTV PNADSKKRIR MDSYTSYCNA VSDLHSASEI</p> <p>DMSVKAEMGL GDRKGSNGSL EEWYDQDKPE VSLLFQFLQI LTACFGSFAH GGNDVSNAIG</p> <p>PLVALYLVYD TGDVSSKVAT PIWLLLYGGV GICVGLWWWG RRVIQTMGKD LTPITPSSGF</p> <p>SIELASALTV VIASNIGLPI STTHCKVGSV VSVGWLRSKK AVDWRLFRNI FMAWFVTVPI</p> <p>SGVISAAIMA IFRYVILRM Sequence without tag. The proposed Purification-Tag is based on</p> |

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.

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| 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: | <p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p> |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

Target Details

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|-------------------|---|
| Target: | SLC20A1 |
| Alternative Name: | SLC20A1 (SLC20A1 Products) |
| Background: | <p>Sodium-dependent phosphate transporter 1 (Gibbon ape leukemia virus receptor 1) (GLVR-1) (Leukemia virus receptor 1 homolog) (Phosphate transporter 1) (PiT-1) (Solute carrier family 20 member 1),FUNCTION: Sodium-phosphate symporter which preferentially transports the monovalent form of phosphate with a stoichiometry of two sodium ions per phosphate ion (PubMed:11009570, PubMed:7929240, PubMed:8041748, PubMed:19726692, PubMed:17494632, PubMed:16790504). May play a role in extracellular matrix and cartilage calcification as well as in vascular calcification (PubMed:11009570). Essential for cell proliferation but this function is independent of its phosphate transporter activity (PubMed:19726692). {ECO:0000269 PubMed:11009570, ECO:0000269 PubMed:16790504,</p> |

Target Details

ECO:0000269|PubMed:17494632, ECO:0000269|PubMed:19726692, ECO:0000269|PubMed:7929240, ECO:0000269|PubMed:8041748}, FUNCTION: (Microbial infection) May function as a retroviral receptor as it confers human cells susceptibility to infection to Gibbon Ape Leukemia Virus (GaLV), Simian sarcoma-associated virus (SSAV) and Feline leukemia virus subgroup B (FeLV-B) as well as 10A1 murine leukemia virus (10A1 MLV). {ECO:0000269|PubMed:12097582, ECO:0000269|PubMed:1309898, ECO:0000269|PubMed:2078500, ECO:0000269|PubMed:7966619}.

Molecular Weight: 73.7 kDa

UniProt: [Q8WUM9](#)

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