

Datasheet for ABIN7561461

SLC13A2 Protein (AA 1-586) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC13A2
Protein Characteristics:	AA 1-586
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC13A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Slc13a2 Protein expressed in mammalian cells.
Sequence:	<p>MATCWQALWA YRSYLIVLCL PIFLLPLPLI VQTKEAYCAY SIILMALLWC TEALPLAVTA</p> <p>LFPIILFPLM GIMEASKVCL EYFKDTNIFL VGGLMVAIAV EHWNLHKRIA LGVLLIIGVR</p> <p>PALLLLGFML VTAFLSMWIS NTATTAMMLP IGYAVLEQLQ GSQKDVEEGN SNPSFELQEA</p> <p>SPQKEETKLD NGQAVSVSSE PRAQKTKEHH RFSQGLSLCI CYSASIGGIA TLGTGTPNLV</p> <p>LQGQVNSIFP ENSNVVNFAF WFGFAFPTMV ILLLLAWLWL QVLFLGVNFR KNFGFGEGEE</p> <p>ERKQAAFQVI KTQHRLLGPM SFAEKAVTFL FVLLVVLWFT REPGFFPGWG DTAFANKKGQ</p> <p>SMVSDGTVAI FISLIMFIIP SKIPGLTEDP KPKGKLGKAPP AILTWKTVND KMPWNILILL</p> <p>GGGFALAKGS EESGLSKWLG DKLTPQLHVP PSATVLILSL LVAIFTECTS NVATTTFLFP</p> <p>ILASMAQAIC LHPLYVMLPC TLAASLAFML PVATPPNAIV FSFGGLKVSD MARAGFLLNI</p> <p>IGVLTITLSI NSWSIPIFKL DTFPTWAYSNT SQCLLNPPN STVPGH Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different</p>

complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

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, Western Blot
Grade:	custom-made

Target Details

Target:	SLC13A2
Alternative Name:	Slc13a2 (SLC13A2 Products)
Background:	<p>Solute carrier family 13 member 2 (Na⁺)/dicarboxylate cotransporter 1) (NaDC-1) (Renal sodium/dicarboxylate cotransporter),FUNCTION: Low-affinity sodium-dicarboxylate cotransporter, that mediates the entry of citric acid cycle intermediates, such as succinate, citrate, fumarate and alpha-ketoglutarate (2-oxoglutarate) into the small intestine and renal proximal tubule (PubMed:10966927) (By similarity). Can transport citrate in a Na⁺-dependent manner, recognizing the divalent form of citrate rather than the trivalent form which is normally found in blood (PubMed:10966927). Transports the dicarboxylate into the cell with a probable stoichiometry of 3 Na⁺ for 1 divalent dicarboxylate, rendering the process electrogenic (By similarity). Has a critical role in renal dicarboxylate transport (PubMed:17410095).</p> <p>{ECO:0000250 UniProtKB:Q13183, ECO:0000269 PubMed:10966927, ECO:0000269 PubMed:17410095}.</p>

Target Details

Molecular Weight: 64.1 kDa

UniProt: [Q9ES88](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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