

Datasheet for ABIN7545951
SLC45A2 Protein (AA 1-530) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC45A2
Protein Characteristics:	AA 1-530
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC45A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC45A2 Protein expressed in mammalian cells.
Sequence:	MGSNSGQAGR HIYKSLADDG PFDSVEPPKR PTSRLIMHSM AMFGREFCYA VEAAYVTPVL LSVGLPSSLY SIVWFLSPIL GFLQPVVGS ASDHCRSRWG RRRPYILTLG VMMLVGMALY LNGATVVAAL IANPRRKLWV AISVTMIGVV LFDFAADFID GPIKAYLFDV CSHQDKEKGL HYHALFTGFG GALGYLLGAI DWAHLELGRL LGTEFQVMFF FSALVLTLCF TVHLCSISEA PLTEVAKGIP PQQTPQDPPL SSDGMYEYGS IEKVKNYVN PELAMQGAKN KNHAEQTRRA MTLKSLLRAL VNMPPHYRYL CISHLIGWTA FLSNMLFFTD FMGQIVYRGD PYSAHNSTEF LIYERGVEVG CWGLCINSVF SSLYSYFQKV LVSYIGLKGL YFTGYLLFGL GTGFIGLFPN VYSTLVLC SLFGVMSSTLYT VPFNLITEYH REEEKERQQA PGGDPDNSVR GKGMDCATLT CMVQLAQILV GGGLGFLVNT AGTVVVVVIT ASAVALIGCC FVALFVRYVD 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: SLC45A2

Alternative Name: SLC45A2 ([SLC45A2 Products](#))

Background: Membrane-associated transporter protein (Melanoma antigen AIM1) (Protein AIM-1) (Solute carrier family 45 member 2),FUNCTION: Proton-associated glucose and sucrose transporter (By similarity). May be able to transport also fructose (By similarity). Expressed at a late melanosome maturation stage where functions as proton/glucose exporter which increase luminal pH by decreasing glycolysis (PubMed:32966160, PubMed:35469906). Regulates melanogenesis by maintaining melanosome neutralization that is initially initiated by transient OCA2 and required for a proper function of the tyrosinase TYR (PubMed:32966160, PubMed:35469906). {ECO:0000250|UniProtKB:P58355, ECO:0000269|PubMed:18563784, ECO:0000269|PubMed:18683857, ECO:0000269|PubMed:32966160, ECO:0000269|PubMed:35469906}.

Molecular Weight: 58.3 kDa

Target Details

UniProt: [Q9UMX9](#)

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