SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

SLC4A1 (Human) Recombinant Protein

Catalog Number: H00006521-G01

Regulation Status: For research use only (RUO)

Product Description: Human SLC4A1 full-length ORF (AAH99628.1) recombinant protein without tag.

Sequence:
MEELQDDYEDMMEENLEQEEYEDPDIHESQMEEPAA
HDTEATATDYHTTSHPGTHKVYVELQELVMDEKNQEL
RWMEAARWVQLEENLGENGAWGRPHLSHLTFWSLL
ELRRVFTKGTVLLDLQETSLAGVANQLLDRFIFEDQIRP
QDREELLRALLLKHSHAGELEALGGVKPAVLTRSGDP
SQPLLPQHSSLETQLFCEQGDGGTEGHSPSGILEKIPP
DSEATLVLVGRADFLEQPVLGFVRLQEAAELEAVELPV
PIRFLFVLLGPEAPHIDYTQLGRAAATLMSERVFRIDAY
MAQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVP
VQRELLRRRYQSSPAKPDSSFYKGLDLNGGPDDPLQ
QTGQLFGGLVRDIRRRYPYYLSDITDAFSPQVLAAVIFI
YFAALSPAITFGGLLGEKTRNQMGVSELLISTAVQGILF
ALLGAQPLLVVGFSGPLLVFEEAFFSFCETNGLEYIVG
RVWIGFWLILLVVLVVAFEGSFLVRFISRYTQEIFSFLIS
LIFIYETFSKLIKIFQDHPLQKTYNYNVLMVPKPQGPLPN
TALLSLVLMAGTFFFAMMLRKFKNSSYFPGKLRRVIGD
FGVPISILIMVLVDFFIQDTYTQKLSVPDGFKVSNSSAR
GWVIHPLGLRSEFPIWMMFASALPALLVFILIFLESQITT
LIVSKPERKMVKGSGFHLDLLLVVGMGGVAALFGMPW
LSATTVRSVTHANALTVMGKASTPGAAAQIQEVKEQRI
SGLLVAVLVGLSILMEPILSRIPLAVLFGIFLYMGVTSLS
GIQLFDRILLLFKPPKYHPDVPYVKRVKTWRMHLFTGI
QIICLAVLWVVKSTPASLALPFVLILTVPLRRVLLPLIFRN
VELQCLDADDAKATFDEEEGRDEYDEVAMPV

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 101.8

Applications: AP
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Liquid

Preparation Method: *in vitro* wheat germ expression system with proprietary liposome technology

Purification: None

Recommend Usage: Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

Storage Buffer: 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 6521

Gene Symbol: SLC4A1

Gene Alias: AE1, BND3, CD233, DI, EMPB3, EPB3, FR, MGC116750, MGC116753, MGC126619, MGC126623, RTA1A, SW, WD, WD1, WR

Gene Summary: The protein encoded by this gene is part of the anion exchanger (AE) family and is expressed in the erythrocyte plasma membrane, where it functions as a chloride/bicarbonate exchanger involved in carbon dioxide transport from tissues to lungs. The protein comprises two domains that are structurally and functionally distinct. The N-terminal 40kDa domain is located in the cytoplasm and acts as an attachment site for the red cell skeleton by binding ankyrin. The glycosylated C-terminal membrane-associated domain contains 12-14 membrane spanning segments and carries out the stilbene disulphonate-sensitive exchange transport of anions. The cytoplasmic tail at the extreme C-terminus of the membrane domain binds carbonic anhydrase II. The encoded protein associates with the red cell membrane protein glycophorin A and this association promotes the correct folding and translocation of the exchanger. This protein is predominantly dimeric but forms tetramers in the presence of ankyrin. Many mutations in this gene are known in man, and these mutations can lead to two types of disease: destabilization of red cell membrane leading to hereditary spherocytosis, and defective kidney acid secretion leading to distal renal tubular acidosis. Other mutations that do not give rise to disease result in novel blood group antigens, which form the Diego blood

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group system. Southeast Asian ovalocytosis (SAO, Melanesian ovalocytosis) results from the heterozygous presence of a deletion in the encoded protein and is common in areas where Plasmodium falciparum malaria is endemic. One null mutation in this gene is known, resulting in very severe anemia and nephrocalcinosis. [provided by RefSeq]