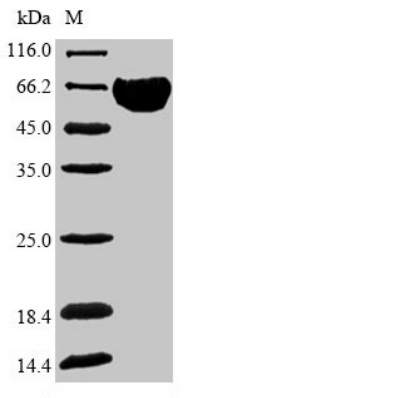
Recombinant Human Band 3 anion transport protein (SLC4A1),Partial

Product Code	CSB-EP021663HU
Relevance	Functions both as a transporter that mediates electroneutral anion exchange across the cell membrane and as a structural protein. Major integral membrane glycoprotein of the erythrocyte membrane; required for normal flexibility and stability of the erythrocyte membrane and for normal erythrocyte shape via the interactions of its cytoplasmic domain with cytoskeletal proteins, glycolytic enzymes, and hemoglobin. Functions as a transporter that mediates the 1:1 exchange of inorganic anions across the erythrocyte membrane. Mediates chloride-bicarbonate exchange in the kidney, and is required for normal acidification of the urine.
Abbreviation	Recombinant Human SLC4A1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P02730
Alias	Anion exchange protein 1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDTEATATDYHTTSHP GTHKVYVELQELVMDEKNQELRWMEAARWVQLEENLGENGAWGRPHLSHL TFWSLLELRRVFTKGTVLLDLQETSLAGVANQLLDRFIFEDQIRPQDREELLRA LLLKHSHAGELEALGGVKPAVLTRSGDPSQPLLPQHSSLETQLFCEQGDGGT EGHSPSGILEKIPPDSEATLVLVGRADFLEQPVLGFVRLQEAAELEAVELPVPIR FLFVLLGPEAPHIDYTQLGRAAATLMSERVFRIDAYMAQSRGELLHSLEGFLDC SLVLPPTDAPSEQALLSLVPVQRELLRRRYQSSPAKPDSSFYKGLDLNGGPDD PLQQTGQLFGGLVRDIRRRYPYYLSDITDAFSP
Research Area	Cardiovascular
Source	E.coli
Target Names	SLC4A1
Protein Names	Recommended name: Band 3 anion transport proteinAlternative name(s): Anion exchange protein 1 Short name= AE 1 Short name= Anion exchanger 1 Solute carrier family 4 member 1 CD_antigen= CD233
Expression Region	1-403aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	65.3kDa
Protein Length	Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Expand your cardiovascular research capabilities with our premium Recombinant Human SLC4A1 protein. Band 3 anion transport protein, also known as CD233, Anion exchange protein 1, or Solute carrier family 4 member 1, plays a crucial role in ion transportation and acid-base regulation in erythrocytes, essential for maintaining cellular homeostasis and proper cardiovascular function.

Sourced from E. coli expression systems, our recombinant SLC4A1 protein is a partial construct encompassing the 1-403aa region, optimized to support your scientific endeavors. The N-terminal 10xHis-SUMO-tag and C-terminal Myc-tag allow for efficient protein purification and detection, ensuring streamlined experimentation. With a purity greater than 90% as determined by SDS-PAGE, our Recombinant Human SLC4A1 protein is supplied in a lyophilized powder format to provide you with the highest quality protein for your cardiovascular research.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.
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