

SLC4A1 Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	EPB3;Anion exchange protein 1 (AE 1;Anion exchanger 1);AE1;CD233;Solute carrier family 4 member 1;DI;SLC4A1;Band 3 anion transport protein
Protein Construction:	1-403 aa
Species:	Human
Expression Host:	E. coli
Accession:	P02730
Molecular Weight:	50.3 kDa (predicted)
AA Sequence:	MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDTATDYHTTSHPGTHKVYVELQELVMDEKNQ ELRWMEARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVLLDLQETSLAGVANQLLDRFIFED QIRPQDREELLRALLLKSHSHAGELEALGGVKPAVLTRSGDPSQPLLPQHSSLETQLFCEQGDGGTEGHSPGIL EKIPPDSEATLVLVGRADFLEQPVLFVRLQEAEELEAVELPVPPIRFLFVLLGPEAPHIDYTLGAAATLMSER VFRIDAYMAQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQRELLRRRYQSSPAKPDSSFYKGLDLNG GPDDPLQQTGQLFGGLVLRDIRRRYPYYLSDITDAFSP

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Functions both as a transporter that mediates electroneutral anion exchange across the cell membrane and as a

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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