

## Datasheet for ABIN7552595 Band 3/AE1 Protein (AA 1-911) (His tag)



Overview

Quantity:	1 mg
Target:	Band 3/AE1 (SLC4A1)
Protein Characteristics:	AA 1-911
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Band 3/AE1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SLC4A1 Protein expressed in mammalian cells.
Sequence:	MEELQDDYED MMEENLEQEE YEDPDIPESQ MEEPAAHDTE ATATDYHTTS HPGTHKVYVE
	LQELVMDEKN QELRWMEAAR WVQLEENLGE NGAWGRPHLS HLTFWSLLEL RRVFTKGTVL
	LDLQETSLAG VANQLLDRFI FEDQIRPQDR EELLRALLLK HSHAGELEAL GGVKPAVLTR
	SGDPSQPLLP QHSSLETQLF CEQGDGGTEG HSPSGILEKI PPDSEATLVL VGRADFLEQP
	VLGFVRLQEA AELEAVELPV PIRFLFVLLG PEAPHIDYTQ LGRAAATLMS ERVFRIDAYM
	AQSRGELLHS LEGFLDCSLV LPPTDAPSEQ ALLSLVPVQR ELLRRRYQSS PAKPDSSFYK
	GLDLNGGPDD PLQQTGQLFG GLVRDIRRRY PYYLSDITDA FSPQVLAAVI FIYFAALSPA
	ITFGGLLGEK TRNQMGVSEL LISTAVQGIL FALLGAQPLL VVGFSGPLLV FEEAFFSFCE
	TNGLEYIVGR VWIGFWLILL VVLVVAFEGS FLVRFISRYT QEIFSFLISL IFIYETFSKL IKIFQDHPLQ
	KTYNYNVLMV PKPQGPLPNT ALLSLVLMAG TFFFAMMLRK FKNSSYFPGK LRRVIGDFGV
	PISILIMVLV DFFIQDTYTQ KLSVPDGFKV SNSSARGWVI HPLGLRSEFP IWMMFASALP
	ALLVFILIFL ESQITTLIVS KPERKMVKGS GFHLDLLLVV GMGGVAALFG MPWLSATTVR

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	SVTHANALTV MGKASTPGAA AQIQEVKEQR ISGLLVAVLV GLSILMEPIL SRIPLAVLFG
	IFLYMGVTSL SGIQLFDRIL LLFKPPKYHP DVPYVKRVKT WRMHLFTGIQ IICLAVLWVV
	KSTPASLALP FVLILTVPLR RVLLPLIFRN VELQCLDADD AKATFDEEEG RDEYDEVAMP V
	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.
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:
	<ul> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> <li>Protein expressed in mammalian cells and purified in one-step affinity chromatography</li> <li>The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li> </ul>
	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:	Band 3/AE1 (SLC4A1)
Alternative Name:	SLC4A1 (SLC4A1 Products)
Background:	Band 3 anion transport protein (Anion exchange protein 1) (AE 1) (Anion exchanger 1) (Solute carrier family 4 member 1) (CD antigen CD233),FUNCTION: Functions both as a transporter
	that mediates electroneutral anion exchange across the cell membrane and as a structural

protein (PubMed:35835865, PubMed:10926824, PubMed:14734552, PubMed:16227998,

PubMed:24121512, PubMed:28387307, PubMed:1538405, PubMed:20151848). Component of

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	the ankyrin-1 complex 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
	(PubMed:35835865, PubMed:1538405, PubMed:20151848). 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
	(PubMed:10926824, PubMed:14734552, PubMed:16227998, PubMed:24121512,
	PubMed:28387307). {ECO:0000269 PubMed:10926824, ECO:0000269 PubMed:14734552,
	ECO:0000269 PubMed:1538405, ECO:0000269 PubMed:16227998,
	EC0:0000269 PubMed:20151848, EC0:0000269 PubMed:24121512,
	EC0:0000269 PubMed:28387307, EC0:0000269 PubMed:35835865}., FUNCTION: (Microbial
	infection) Acts as a receptor for P.falciparum (isolate 3D7) MSP9 and thus, facilitates merozoite
	invasion of erythrocytes (PubMed:14630931). Acts as a receptor for P.falciparum (isolate 3D7)
	MSP1 and thus, facilitates merozoite invasion of erythrocytes (PubMed:12692305).
	{ECO:0000269 PubMed:12692305, ECO:0000269 PubMed:14630931}.
Molecular Weight:	101.8 kDa
UniProt:	P02730
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

Expiry Date:

Storage Comment:

12 months

Store at -80°C.

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