

Datasheet for ABIN3111877

SLC4A2 Protein (AA 1-1241) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SLC4A2
Protein Characteristics:	AA 1-1241
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MSSAPRRPAK GADSFCTPEP ESLGPGTPGF PEQEEDELHR TLGVERFEEI LQEAGSRGGE</p> <p>EPGRSYGEED FEYHRQSSH IHHPLSTHLP PDARRRKTPQ GPGRKPRRRP GASPTGETPT</p> <p>IEEGEEDEDE ASEAEARAL TQPSPVSTPS SVQFFLQEDD SADRKAERTS PSSPAPLPHQ</p> <p>EATPRASKGA QAGTQVEEAE AEAVALASGT AGGDDGGASG RPLPKAQPGH RSYNLQERRR</p> <p>IGSMTGAEQA LLPRVPTDEI EAQTLATADL DLMKSHRFED VPGVRRHLVR KNAKGSTQSG</p> <p>REGREPGPTP RARPRAPHKP HEVFVELNEL LLDKNQEPQW RETARWIKFE EDVEEETERW</p> <p>GKPHVASLSF RSLLELRRTL AHGAVLLDLD QQTLPGVAHQ VVEQMVISDQ IKAEDRANVL</p> <p>RALLLKHSHP SDEKDFSFP NISAGSLGSL LGHHHGQGA ESDPHVTEPLM GGPVETRLEV</p> <p>ERERELPPPA PPAGITRSKS KHEKLLEKI PENAEATVVL VGCVEFLSRP TMAFVRLREA</p> <p>VELDAVLEVP VPVRFLFLLL GPSSANMDYH EIGRSISTLM SDKQFHEAAY LADEREDLLT</p> <p>AINAFDCSV VLPPSEVQGE ELLRSVAHFQ RQMLKKREEQ GRLLPTGAGL EPKSAQDKAL</p>

LQMVEAAGAA EDDPLRRTGR PFGGLIRDVR RRYPHYLSDF RDALDPQCLA AVIFIYFAAL
SPAITFGGLL GEKTQDLIGV SELIMSTALQ GVVFCLLGAQ PLLVIGFSGP LLVFEEAFFS
FCSSNHLEYL VGRVWIGFWL VFLALLMVAL EGSFLVRFVS RFTQEIFAFL ISLIFIYETF
YKLVKIFQEH PLHGCSASNS SEVDGGENMT WAGARPTLGP GNRSLAGQSG QGKPRGQPNT
ALLSLVLMAG TFFIAFFLRK FKNSRFFPGR IRRVIGDFGV PIALIMVLV DYSIEDTYTQ
KLSVPSGFSV TAPEKRGWVI NPLGEKSPFP VWMMVASLLP AILVFILIFM ETQITTLIIS
KKERMLQKGS GFHLDLLLIV AMGGICALFG LPWLAAATVR SVTHANALTV MSKAVAPGDK
PKIQEVKEQR VTGLLVALLV GLSIVIGDLL RQIPLAVLFG IFLYMGVTSL NGIQFYERLH
LLLMPKHPH DVTYVKKVRT LRMHLFTALQ LLCLALLWAV MSTAASLAFP FILITVPLR
MVVLTRIFTD REMKCLDANE AEPVFDEREG VDEYNEMPMP V

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Product Details

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	SLC4A2
Alternative Name:	SLC4A2 (SLC4A2 Products)
Background:	<p>Anion exchange protein 2 (AE 2) (Anion exchanger 2) (Non-erythroid band 3-like protein) (BND3L) (Solute carrier family 4 member 2),FUNCTION: Sodium-independent anion exchanger which mediates the electroneutral exchange of chloride for bicarbonate ions across the cell membrane (PubMed:15184086, PubMed:34668226). Plays an important role in osteoclast differentiation and function (PubMed:34668226). Regulates bone resorption and calpain-dependent actin cytoskeleton organization in osteoclasts via anion exchange-dependent control of pH (By similarity). Essential for intracellular pH regulation in CD8(+) T-cells upon CD3 stimulation, modulating CD8(+) T-cell responses (By similarity).</p> <p>{ECO:0000250 UniProtKB:P13808, ECO:0000269 PubMed:15184086, ECO:0000269 PubMed:34668226}.</p>
Molecular Weight:	137.0 kDa
UniProt:	P04920

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months