Datasheet for ABIN3118937

SLC24A2 Protein (AA 1-661) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	SLC24A2
Protein Characteristics:	AA 1-661
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC24A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MDLQQSTTIT SLEKWCLDES LSGCRRHYSV KKKLKLIRVL GLFMGLVAIS TVSFSISAFS ETDTQSTGEA SVVSGPRVAQ GYHQRTLLDL NDKILDYTPQ PPLSKEGESE NSTDHAQGDY PKDIFSLEER RKGAIILHVI GMIYMFIALA IVCDEFFVPS LTVITEKLGI SDDVAGATFM AAGGSAPELF TSLIGVFIAH SNVGIGTIVG SAVFNILFVI GMCALFSREI LNLTWWPLFR DVSFYIVDLI MLIIFFLDNV IMWWESLLLL TAYFCYVVFM KFNVQVEKWV KQMINRNKVV KVTAPEAQAK PSAARDKDEP TLPAKPRLQR GGSSASLHNS LMRNSIFQLM IHTLDPLAEE LGSYGKLKYY DTMTEEGRFR EKASILHKIA KKKCHVDENE RQNGAANHVE KIELPNSTST DVEMTPSSDA SEPVQNGNLS HNIEGAEAQT ADEEEDQPLS LAWPSETRKQ VTFLIVFPIV FPLWITLPDV RKPSSRKFFP ITFFGSITWI AVFSYLMVWW AHQVGETIGI SEEIMGLTIL AAGTSIPDLI TSVIVARKGL GDMAVSSSVG SNIFDITVGL PLPWLLYTVI HRFQPVAVSS NGLFCAIVLL FIMLLFVILS IALCKWRMNK ILGFIMFGLY FVFLVVSVLL EDRILTCPVS I **Sequence without tag. The proposed Strep-Tag is based on experience s with the expression**

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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!

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: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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Target Details

Target:	SLC24A2
Alternative Name:	SLC24A2 (SLC24A2 Products)
Background:	Sodium/potassium/calcium exchanger 2 (Na(+)/K(+)/Ca(2+)-exchange protein 2) (Retinal cone Na-Ca+K exchanger) (Solute carrier family 24 member 2),FUNCTION: Calcium, potassium:sodium antiporter that transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+) (PubMed:10662833, PubMed:26631410). Required for learning and memory by regulating neuronal Ca(2+), which is essential for the development of synaptic plasticity (By similarity). {ECO:0000250|UniProtKB:Q8BUN9, ECO:0000269|PubMed:10662833, ECO:0000269|PubMed:26631410}.
Molecular Weight:	73.7 kDa
UniProt:	Q9UI40

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 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. If you have a special request, please contact us.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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