Datasheet for ABIN3131587

SLC1A6 Protein (AA 1-561) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC1A6
Protein Characteristics:	AA 1-561
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC1A6 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSSHGNSLFL RESGAGGGCL QGLQDSLQQR ALRTRLRLQT MTREHVRRFL RRNAFILLTV SAVIIGVSLA FALRPYQLSY RQIKYFSFPG ELLMRMLQML VLPLIVSSLV TGMASLDNKA TGRMGMRAAV YYMVTTVIAV FIGILMVTII HPGKGSKEGL HREGRIETVP TADAFMDLVR NMFPPNLVEA CFKQFKTQYS TRVVTRTIVR TDNGSELGAS MSPTSSVENE TSILENVTRA LGTLQEVISF EETVPVPGSA NGINALGLVV FSVAFGLVIG GMKHKGRVLR DFFDSLNEAI MRLVGIIIWY APVGILFLIA GKILEMEDMA VLGGQLGMYT LTVIVGLFLH AGGVLPLIYF LVTHRNPFPF IGGMLQALIT AMGTSSSSAT LPITFRCLEE GLGVDRRITR FVLPVGATVN MDGTALYEAL AAIFIAQVNN YELNLGQITT ISITATAASV GAAGIPQAGL VTMVIVLTSV GLPTEDITLI IAVDWFLDRL RTMTNVLGDS IGAAVIEHLS QRELELQEAE LTLPSLGKPY KSLMAQEKGA SRGRGGNESV M **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! 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:	SLC1A6
Alternative Name:	Slc1a6 (SLC1A6 Products)
Background:	Excitatory amino acid transporter 4 (High-affinity neuronal glutamate transporter) (Sodium-dependent glutamate/aspartate transporter) (Solute carrier family 1 member 6),FUNCTION: Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:9379843). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion. Mediates Cl(-) flux that is not coupled to amino acid transport, this avoids the accumulation of negative charges due to aspartate and Na(+) symport (By similarity). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (Probable). {ECO:0000250|UniProtKB:O35921, ECO:0000269|PubMed:9379843, ECO:0000305}.
Molecular Weight:	60.8 kDa
UniProt:	O35544
Pathways:	Dicarboxylic Acid Transport

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. 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