Datasheet for ABIN3118070

SLC6A15 Protein (AA 1-730) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	SLC6A15
Protein Characteristics:	AA 1-730
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC6A15 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MPKNSKVVKR ELDDDVTESV KDLLSNEDAA DDAFKTSELI VDGQEEKDTD VEEGSEVEDE RPAWNSKLQY ILAQVGFSVG LGNVWRFPYL CQKNGGGAYL LPYLILLMVI GIPLFFLELS VGQRIRRGSI GVWNYISPKL GGIGFASCVV CYFVALYYNV IIGWSLFYFS QSFQQPLPWD QCPLVKNASH TFVEPECEQS SATTYYWYRE ALNISSSISE SGGLNWKMTI CLLAAWVMVC LAMIKGIQSS GKIIYFSSLF PYVVLICFLI RAFLLNGSID GIRHMFTPKL EIMLEPKVWR EAATQVFFAL GLGFGGVIAF SSYNKRDNNC HFDAVLVSFI NFFTSVLATL VVFAVLGFKA NVINEKCITQ NSETIMKFLK MGNISQDIIP HHINLSTVTA EDYHLVYDII QKVKEEEFPA LHLNSCKIEE ELNKAVQGTG LAFIAFTEAM THFPASPFWS VMFFLMLVNL GLGSMFGTIE GIVTPIVDTF KVRKEILTVI CCLLAFCIGL IFVQRSGNYF VTMFDDYSAT LPLLIVVILE NIAVCFVYGI DKFMEDLKDM LGFAPSRYYY YMWKYISPLM LLSLLIASVV NMGLSPPGYN AWIEDKASEE FLSYPTWGLV VCVSLVVFAI LPVPVVFIVR RFNLIDDSSG NLASVTYKRG RVLKEPVNLE GDDTSLIHGK IPSEMPSPNF GKNIYRKQSG SPTLDTAPNG RYGIGYLMAD IMPDMPESDL

	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 by multi-step, protein-specific process to ensure correct folding and modification. • 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

Product Details

	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	SLC6A15
Alternative Name:	SLC6A15 (SLC6A15 Products)
Background:	Sodium-dependent neutral amino acid transporter B(0)AT2 (Sodium- and chloride-dependent neurotransmitter transporter NTT73) (Sodium-coupled branched-chain amino-acid transporter 1) (Solute carrier family 6 member 15) (Transporter v7-3),FUNCTION: Functions as a sodium-dependent neutral amino acid transporter. Exhibits preference for the branched-chain amino acids, particularly leucine, valine and isoleucine and methionine. Can also transport low-affinity substrates such as alanine, phenylalanine, glutamine and pipecolic acid. Mediates the saturable, pH -sensitive and electrogenic cotransport of proline and sodium ions with a stoichiometry of 1:1. May have a role as transporter for neurotransmitter precursors into neurons. In contrast to other members of the neurotransmitter transporter family, does not appear to be chloride-dependent. {ECO:0000269|PubMed:16226721}.
Molecular Weight:	81.8 kDa
UniProt:	Q9H2J7

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

Application Details

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