Datasheet for ABIN3130082

SLC15A1 Protein (AA 1-709) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC15A1
Protein Characteristics:	AA 1-709
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC15A1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MGMSKSRGCF GYPLSIFFIV VNEFCERFSY YGMRALLVLY FRNFLGWDDN LSTAIYHTFV ALCYLTPILG ALIADSWLGK FKTIVSLSIV YTIGQAVISV SSINDLTDHD HNGSPDSLPV HVALSMVGLA LIALGTGGIK PCVSAFGGDQ FEEGQEKQRN RFFSIFYLAI NGGSLLSTII TPILRVQQCG IHSQQACYPL AFGVPAALMA VALIVFVLGS GMYKKFQPQG NIMGKVAKCI GFAIKNRFRH RSKAYPKREH WLDWAKEKYD ERLISQIKMV TKVMFLYIPL PMFWALFDQQ GSRWTLQATT MNGKIGAIEI QPDQMQTVNA ILIVIMVPIV DAVVYPLIAK CGFNFTSLKK MTVGMFLASM AFVVAAIVQV EIDKTLPVFP GGNQVQIKVL NIGNNNMTVH FPGNSVTLAQ MSQTDTFMTF DIDKLTSINI SSSGSPGVTT VAHDFEQGHR HTLLVWNPSQ YRVVKDGLNQ KPEKGENGIR FVNTLNEMVT IKMSGKVYEN VTSHNASGYQ FFPSGEKQYT INTTAVAPTC LTDFKSSNLD FGSAYTYVIR RASDGCLEVK EFEDIPPNTV NMALQIPQYF LLTCGEVVFS VTGLEFSYSQ APSNMKSVLQ AGWLLTVAVG NIIVLIVAGA GHFPKQWAEY ILFASLLLVV

	CVIFAIMARF YTYINPAEIE AQFDEDEKKK GIGKENPYSS LEPVSQTNM **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®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	SLC15A1
Alternative Name:	Slc15a1 (SLC15A1 Products)
Background:	Solute carrier family 15 member 1 (Intestinal H(+)/peptide cotransporter) (Oligopeptide transporter, small intestine isoform) (Peptide transporter 1) (Proton-coupled dipeptide cotransporter),FUNCTION: Electrogenic proton-coupled amino-acid transporter that transports oligopeptides of 2 to 4 amino acids with a preference for dipeptides. Transports neutral and monovalently charged peptides with a proton to peptide stoichiometry of 1:1 or 2:1 (PubMed:11004485) (By similarity). Primarily responsible for the absorption of dietary di- and tripeptides from the small intestinal lumen (By similarity). Mediates transepithelial transport of muramyl and N-formylated bacterial dipeptides contributing to recognition of pathogenic bacteria by the mucosal immune system (By similarity). {ECO:0000250|UniProtKB:P36836, ECO:0000250|UniProtKB:P46059, ECO:0000269|PubMed:11004485, ECO:0000269|PubMed:26320580}.
Molecular Weight:	78.6 kDa
UniProt:	Q9JIP7

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

Application Details

	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