Datasheet for ABIN3104242

Solute Carrier Family 7 (Anionic Amino Acid Transporter), Member 13 (SLC7A13) (AA 1-470) protein (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	Solute Carrier Family 7 (Anionic Amino Acid Transporter), Member 13 (SLC7A13)
Protein Characteristics:	AA 1-470
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MDRGEKIQLK RVFGYWWGTS FLLINIIGAG IFVSPKGVLA YSCMNVGVSL CVWAGCAILA MTSTLCSAEI SISFPCSGAQ YYFLKRYFGS TVAFLNLWTS LFLGSGVVAG QALLLAEYSI QPFFPSCSVP KLPKKCLALA MLWIVGILTS RGVKEVTWLQ IASSVLKVSI LSFISLTGVV FLIRGKKENV ERFQNAFDAE LPDISHLIQA IFQGYFAYSG GACFTLIAGE LKKPRTTIPK CIFTALPLVT VVYLLVNISY LTVLTPREIL SSDAVAITWA DRAFPSLAWI MPFAISTSLF SNLLISIFKS SRPIYLASQE GQLPLLFNTL NSHSSPFTAV LLLVTLGSLA IILTSLIDLI NYIFFTGSLW SILLMIGILR RRYQEPNLSI PYKVFLSFPL ATIVIDVGLV VIPLVKSPNV HYVYVLLLVL SGLLFYIPLI HFKIRLAWFE KMTCYLQLLF NICLPDVSEE **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.**

Product Details

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:	Solute Carrier Family 7 (Anionic Amino Acid Transporter), Member 13 (SLC7A13)
Alternative Name:	SLC7A13 (SLC7A13 Products)
Background:	Solute carrier family 7 member 13 (Sodium-independent aspartate/glutamate transporter 1) (X-amino acid transporter 2),FUNCTION: Associates with SLC3A1/rBAT to form a functional heterodimeric complex that transports anionic and neutral amino acids across the apical plasma membrane of renal epithelium. Preferentially mediates exchange transport, but can also operate via facilitated diffusion. May act as a major transporter for L-cystine in late proximal tubules, ensuring its reabsorption from the luminal fluid in exchange for cytosolic L-glutamate or L-aspartate. {ECO:0000250|UniProtKB:Q91WN3}.
Molecular Weight:	52.1 kDa
UniProt:	Q8TCU3

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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months