Datasheet for ABIN3113787

SLC26A2 Protein (AA 1-739) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	SLC26A2
Protein Characteristics:	AA 1-739
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC26A2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSSESKEQHN VSPRDSAEGN DSYPSGIHLE LQRESSTDFK QFETNDQCRP YHRILIERQE KSDTNFKEFV IKKLQKNCQC SPAKAKNMIL GFLPVLQWLP KYDLKKNILG DVMSGLIVGI LLVPQSIAYS LLAGQEPVYG LYTSFFASII YFLLGTSRHI SVGIFGVLCL MIGETVDREL QKAGYDNAHS APSLGMVSNG STLLNHTSDR ICDKSCYAIM VGSTVTFIAG VYQVAMGFFQ VGFVSVYLSD ALLSGFVTGA SFTILTSQAK YLLGLNLPRT NGVGSLITTW IHVFRNIHKT NLCDLITSLL CLLVLLPTKE LNEHFKSKLK APIPIELVVV VAATLASHFG KLHENYNSSI AGHIPTGFMP PKVPEWNLIP SVAVDAIAIS IIGFAITVSL SEMFAKKHGY TVKANQEMYA IGFCNIIPSF FHCFTTSAAL AKTLVKESTG CHTQLSGVVT ALVLLLVLLV IAPLFYSLQK SVLGVITIVN LRGALRKFRD LPKMWSISRM DTVIWFVTML SSALLSTEIG LLVGVCFSIF CVILRTQKPK SSLLGLVEES EVFESVSAYK NLQIKPGIKI FRFVAPLYYI NKECFKSALY KQTVNPILIK VAWKKAAKRK IKEKVVTLGG IQDEMSVQLS HDPLELHTIV IDCSAIQFLD TAGIHTLKEV

	RRDYEAIGIQ VLLAQCNPTV RDSLTNGEYC KKEEENLLFY SVYEAMAFAE VSKNQKGVCV PNGLSLSSD **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:	SLC26A2
Alternative Name:	SLC26A2 (SLC26A2 Products)
Background:	Sulfate transporter (Diastrophic dysplasia protein) (Solute carrier family 26 member 2),FUNCTION: Sulfate transporter which mediates sulfate uptake into chondrocytes in order to maintain adequate sulfation of proteoglycans which is needed for cartilage development (PubMed:7923357, PubMed:11448940, PubMed:15294877, PubMed:20219950). Mediates electroneutral anion exchange of sulfate ions for oxalate ions and of sulfate and oxalate ions for chloride ions (PubMed:20219950). Mediates exchange of sulfate and oxalate ions for hydroxyl ions and of chloride ions for bromide, iodide and nitrate ions (By similarity). The coupling of sulfate transport to both hydroxyl and chloride ions likely serves to ensure transport at both acidic pH when most sulfate uptake is mediated by sulfate-hydroxide exchange and alkaline pH when most sulfate uptake is mediated by sulfate-chloride exchange (By similarity). Essential for chondrocyte proliferation, differentiation and cell size expansion (By similarity). {ECO:0000250|UniProtKB:Q62273, ECO:0000269|PubMed:11448940, ECO:0000269|PubMed:15294877, ECO:0000269|PubMed:20219950, ECO:0000269|PubMed:7923357}.
Molecular Weight:	81.7 kDa
UniProt:	P50443
Pathways:	Glycosaminoglycan Metabolic Process, Ribonucleoside Biosynthetic Process

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.

Application Details

	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