Datasheet for ABIN3118945

Solute Carrier Organic Anion Transporter Family, Member 3A1 (SLCO3A1) (AA 1-710) protein (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	Solute Carrier Organic Anion Transporter Family, Member 3A1 (SLCO3A1)
Protein Characteristics:	AA 1-710
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:	MQGKKPGGSS GGGRSGELQG DEAQRNKKKK KKVSCFSNIK IFLVSECALM LAQGTVGAYL VSVLTTLERR FNLQSADVGV IASSFEIGNL ALILFVSYFG ARGHRPRLIG CGGIVMALGA LLSALPEFLT HQYKYEAGEI RWGAEGRDVC AANGSGGDEG PDPDLICRNR TATNMMYLLL IGAQVLLGIG ATPVQPLGVS YIDDHVRRKD SSLYIGILFT MLVFGPACGF ILGSFCTKIY VDAVFIDTSN LDITPDDPRW IGAWWGGFLL CGALLFFSSL LMFGFPQSLP PHSEPAMESE QAMLSEREYE RPKPSNGVLR HPLEPDSSAS CFQQLRVIPK VTKHLLSNPV FTCIILAACM EIAVVAGFAA FLGKYLEQQF NLTTSSANQL LGMTAIPCAC LGIFLGGLLV KKLSLSALGA IRMAMLVNLV STACYVSFLF LGCDTGPVAG VTVPYGNSTA PGSALDPYSP CNNNCECQTD SFTPVCGADG ITYLSACFAG CNSTNLTGCA CLTTVPAENA TVVPGKCPSP GCQEAFLTFL CVMCICSLIG AMAQTPSVII LIRTVSPELK SYALGVLFLL LRLLGFIPPP LIFGAGIDST CLFWSTFCGE QGACVLYDNV VYRYLYVSIA IALKSFAFIL YTTTWQCLRK NYKRYIKNHE

	GGLSTSEFFA STLTLDNLGR DPVPANQTHR TKFIYNLEDH EWCENMESVL **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:	Solute Carrier Organic Anion Transporter Family, Member 3A1 (SLCO3A1)
Alternative Name:	SLCO3A1 (SLCO3A1 Products)
Background:	Solute carrier organic anion transporter family member 3A1 (OATP3A1) (Organic anion transporter polypeptide-related protein 3) (OATP-RP3) (OATPRP3) (Organic anion-transporting polypeptide D) (OATP-D) (PGE1 transporter) (Sodium-independent organic anion transporter D) (Solute carrier family 21 member 11),FUNCTION: Putative organic anion antiporter with apparent broad substrate specificity. Recognizes various substrates including thyroid hormone L-thyroxine, prostanoids such as prostaglandin E1 and E2, bile acids such as taurocholate, glycolate and glycochenodeoxycholate and peptide hormones such as L-arginine vasopressin, likely operating in a tissue-specific manner (PubMed:10873595, PubMed:14631946, PubMed:16971491, PubMed:19129463, PubMed:30063921). The transport mechanism, its electrogenicity and potential tissue-specific counterions remain to be elucidated (Probable). {ECO:0000269|PubMed:10873595, ECO:0000269|PubMed:14631946, ECO:0000269|PubMed:16971491, ECO:0000269|PubMed:19129463, ECO:0000269|PubMed:30063921, ECO:0000305}.
Molecular Weight:	76.6 kDa
UniProt:	Q9UIG8

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

Application Details

	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