Datasheet for ABIN3115930

CHSY3 Protein (AA 1-882) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CHSY3
Protein Characteristics:	AA 1-882
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHSY3 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAVRSRRPWM SVALGLVLGF TAASWLIAPR VAELSERKRR GSSLCSYYGR SAAGPRAGAQ QPLPQPQSRP RQEQSPPPAR QDLQGPPLPE AAPGITSFRS SPWQQPPPLQ QRRRGREPEG ATGLPGAPAA EGEPEEEDGG AAGQRRDGRP GSSHNGSGDG GAAAPSARPR DFLYVGVMTA QKYLGSRALA AQRTWARFIP GRVEFFSSQQ PPNAGQPPPP LPVIALPGVD DSYPPQKKSF MMIKYMHDHY LDKYEWFMRA DDDVYIKGDK LEEFLRSLNS SKPLYLGQTG LGNIEELGKL GLEPGENFCM GGPGMIFSRE VLRRMVPHIG ECLREMYTTH EDVEVGRCVR RFGGTQCVWS YEMQQLFHEN YEHNRKGYIQ DLHNSKIHAA ITLHPNKRPA YQYRLHNYML SRKISELRYR TIQLHRESAL MSKLSNTEVS KEDQQLGVIP SFNHFQPRER NEVIEWEFLT GKLLYSAAEN QPPRQSLSSI LRTALDDTVL QVMEMINENA KSRGRLIDFK EIQYGYRRVN PMHGVEYILD LLLLYKRHKG RKLTVPVRRH AYLQQLFSKP FFRETEELDV NSLVESINSE TQSFSFISNS LKILSSFQGA KEMGGHNEKK VHILVPLIGR YDIFLRFMEN FENMCLIPKQ NVKLVIILFS

RDSGQDSSKH IELIKGYQNK YPKAEMTLIP MKGEFSRGLG LEMASAQFDN DTLLLFCDVD LIFREDFLQR CRDNTIQGQQ VYYPIIFSQY DPKVTNGGNP PTDDYFIFSK KTGFWRDYGY GITCIYKSDL LGAGGFDTSI QGWGLEDVDL YNKVILSGLR PFRSQEVGVV HIFHPVHCDP NLDPKQYKMC LGSKASTFAS TMQLAELWLE KHLGVRYNRT LS

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.

Product Details

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:	CHSY3
Alternative Name:	CHSY3 (CHSY3 Products)
Background:	Chondroitin sulfate synthase 3 (EC 2.4.1.175) (EC 2.4.1.226) (Carbohydrate synthase 2) (Chondroitin glucuronyltransferase 3) (Chondroitin synthase 2) (ChSy-2) (Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase II) (N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase 3) (N-acetylgalactosaminyltransferase 3),FUNCTION: Has both beta-1,3-glucuronic acid and beta-1,4-N-acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of the elongating chondroitin polymer. Specific activity is much reduced compared to CHSY1. {ECO:0000269|PubMed:12907687}.
Molecular Weight:	100.3 kDa
UniProt:	Q70JA7
Pathways:	Glycosaminoglycan Metabolic 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. 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