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# Datasheet for ABIN3116220 CHSY1 Protein (AA 1-802) (Strep Tag)





## Overview

Quantity:	1 mg
Target:	CHSY1
Protein Characteristics:	AA 1-802
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHSY1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Sequence:	MAARGRRAWL SVLLGLVLGF VLASRLVLPR ASELKRAGPR RRASPEGCRS GQAAASQAGG
	ARGDARGAQL WPPGSDPDGG PRDRNFLFVG VMTAQKYLQT RAVAAYRTWS KTIPGKVQFF
	SSEGSDTSVP IPVVPLRGVD DSYPPQKKSF MMLKYMHDHY LDKYEWFMRA DDDVYIKGDR
	LENFLRSLNS SEPLFLGQTG LGTTEEMGKL ALEPGENFCM GGPGVIMSRE VLRRMVPHIG
	KCLREMYTTH EDVEVGRCVR RFAGVQCVWS YEMQQLFYEN YEQNKKGYIR DLHNSKIHQA
	ITLHPNKNPP YQYRLHSYML SRKISELRHR TIQLHREIVL MSKYSNTEIH KEDLQLGIPP
	SFMRFQPRQR EEILEWEFLT GKYLYSAVDG QPPRRGMDSA QREALDDIVM QVMEMINANA
	KTRGRIIDFK EIQYGYRRVN PMYGAEYILD LLLLYKKHKG KKMTVPVRRH AYLQQTFSKI
	QFVEHEELDA QELAKRINQE SGSLSFLSNS LKKLVPFQLP GSKSEHKEPK DKKINILIPL
	SGRFDMFVRF MGNFEKTCLI PNQNVKLVVL LFNSDSNPDK AKQVELMRDY RIKYPKADMQ
	ILPVSGEFSR ALALEVGSSQ FNNESLLFFC DVDLVFTTEF LQRCRANTVL GQQIYFPIIF
	SQYDPKIVYS GKVPSDNHFA FTQKTGFWRN YGFGITCIYK GDLVRVGGFD VSIQGWGLED

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# VDLFNKVVQA GLKTFRSQEV GVVHVHHPVF CDPNLDPKQY KMCLGSKAST YGSTQQLAEM WLEKNDPSYS KSSNNNGSVR TA

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

# Product DetailsPurification:Two step purification of proteins expressed in Almost Living Cell-Free Expression System<br/>(ALICE®):<br/>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag<br/>capture material. Eluate fractions are analyzed by SDS-PAGE.<br/>2. Protein containing fractions of the best purification are subjected to second purification step<br/>through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and<br/>Western blot.Purity:>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.Endotoxin Level:Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)</td>Grade:Crystallography grade

## Target Details

Target:	CHSY1
Alternative Name:	CHSY1 (CHSY1 Products)
Background:	Chondroitin sulfate synthase 1 (EC 2.4.1.175) (EC 2.4.1.226) (Chondroitin glucuronyltransferase 1) (Chondroitin synthase 1) (ChSy-1) (Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4- beta-N-acetylgalactosaminyltransferase 1) (N-acetylgalactosaminyl-proteoglycan 3-beta- glucuronosyltransferase 1) (N-acetylgalactosaminyltransferase 1),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. Involved in the negative control of osteogenesis likely through the modulation of NOTCH signaling. {ECO:0000269 PubMed:11514575, ECO:0000269 PubMed:12716890, ECO:0000269 PubMed:21129727}.
Molecular Weight:	91.8 kDa
UniProt:	Q86X52
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.

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# **Application Details** 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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images

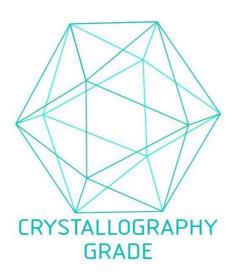


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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