

Datasheet for ABIN3135872

CHSY1 Protein (AA 1-800) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CHSY1
Protein Characteristics:	AA 1-800
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHSY1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MAARGRRRAWL SMLLGLVLGF VLASRLVLPR ASELKRVGPR RRPSPEGCRP GQEASQPGGA RGDARGAQLW PQGSAAEGVP RDRNFLFVG V MTAQKYLQTR AVAAAYRTWSK TIPGKVEFFS SEGSDTSIPI PVVPLRGVDD SYPPQKKSFM MLKYMHDHYL DKYEWFMRAD DDVYIKGDRL ESFLRSLNSS EPLFLGQTGL GTTEEMGKLA LEPGENFCMG GPGVILSREV LRRMAPHIGK CLREMYTTHE DVEVGRCVRR FAGVQCVWSY EMQQLFYENY EQNKKGYIRD LHSSKIHRAI TLHPNKNPPY QYRLHSYMLS RKIAELRHRT IQLHREIVLM SKYSSTEIQK EDLQLGIPPS FMRFQARQRE EILEWEFLTG KYLYSATDGQ PPRRGMDSAQ REALDDIVMQ VMEMINANAK TRGRIIDFKE IQYGYRRVNP MYGAEYIDL LLLYKKHKGK KMTVPVRRHA YLQQTFSKMQ FVEHEELDAQ ELADRINQDS GSLSFLSNSL KKLVAFQLPG SKTEHKEPKE KKINILIPLS GRFDMFVRFM GNFEKTCLIP NLNVKLVILL FNSDSNPDKA KQVELMRDYR VKYPKADMVQ LPVSGGFSRA LALEVGSQF NNESSLFFCD VDLVFTAFL QRCRANTVLG QQIYFPIIFS

QYDPKIVYSG KVPSDNHFAF TQKTGFWRNY GFGITCIYKG DLVRVGGFDV SIQGWGLEDV
DLFNKVVQAG LKTFRSQEVG VVHIHPVVC DPNLDPKQYK MCLGSKASTF GSTQQLAEMW
LEKNDPSYSK GSGHGSARTA

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

Product Details

System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

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:0000250|UniProtKB:Q86X52}.

Molecular Weight: 91.4 kDa

UniProt: [Q6ZQ11](#)

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

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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