

Datasheet for ABIN7553433  
**CHSY1 Protein (AA 1-802) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CHSY1
Protein Characteristics:	AA 1-802
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHSY1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CHSY1 Protein expressed in mammalian cells.
Sequence:	MAARGRRAWL SVLLGLVLGF VLASRLVLPR ASELKRAGPR RRASPEGCRS GQAAASQAGG ARGDARGAQL WPPGSDPDGG PRDRNFLVFG VMTAQKYLQT RAVAAVRTWS KTIPGKVQFF SSEGSDTSVP IPVVPLRGVD DSYPQKKSF MMLKYMHDHY LDKYEFMRA DDDVYIKGDR LENFLRSLNS SEPLFLGQTG LGTTEEMGKL ALEPGENFCM GGPGVIMSRE VLRRMVPHIG KCLREMYTTH EDVEVGRCVR RFAGVQCVWS YEMQQLFYEN YEQNKKGYIR DLHNSKIHQA ITLHPNKNPP YQYRLHSYML SRKISELRHR TIQLHREIVL MSKYSNTEIH KEDLQLGIPP SFMRFQPRQR EEILEWEFLT GKYL SAVDG QPPRRGMDSA QREALDDIVM QVMEMINANA KTRGRIIDFK EIQYGYRRVN PMYGAEYILD LLLLYKKHKG KKMTVPVRRH AYLQQTFSKI QFVEHEELDA QELAKRINQE SGSL SFLSNS LKKLVPFQLP GSKSEHKEPK DKKINILIP SGRFD MFVRF MGNFEKTCLI PNQNVKLVVL LFNSDSNPDK AKQVELMRDY RIKYPKADMQ ILPVSGEFSR ALALEVGSSQ FNNESLLFFC DVDLVFTTEF LQRCRANTVL GQQIYFPIIF SQYDPKIVYS GKVPSDNHFA FTQKTGFWRN YGFGITCIYK GDLVRVGGFD VSIQGWGLED

## Product Details

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VDLFNKVVQA GLKTFRSQEV GVVHVHHPVF CDPNLDPKQY KMCLGSKAST YGSTQQLAEM  
WLEKNDPSYS KSSNNNGSVR TA **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

**Grade:** custom-made

## Target Details

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**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

## Target Details

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control of osteogenesis likely through the modulation of NOTCH signaling.  
{ECO:0000269|PubMed:11514575, ECO:0000269|PubMed:12716890,  
ECO:0000269|PubMed:21129727}.

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Molecular Weight: 91.8 kDa

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UniProt: [Q86X52](#)

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Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months