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Datasheet for ABIN7553247

CSGALNACT1 Protein (AA 1-532) (His tag)

Overview

Quantity:	1 mg
Target:	CSGALNACT1
Protein Characteristics:	AA 1-532
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSGALNACT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat CSGALNACT1 Protein expressed in mammalian cells.
Sequence:	MMMVRRGLLA WISRVVLLV LLCCAISVLY MLACTPKGDE EQLALPRANS PTGKEGYQAV LQEWEEQHRN YVSSLKRQIA QLKEELQERS EQLRNGQYQA SDAAGLGLDR SPPEKTQADL LAF LHSQVDK AEVNAGVKLA TEYA AVPFDS FTLQKVYQLE TGLTRHPEEK PVRKDKRDEL VEAIESALET LN SPAENSPN HRPYTASDFI EGIYRTERDK GTLYELTFKG DHKHEFKRLI LFRPFGPIMK VKNEKLNMAN TLINVIVPLA KRVDKFRQFM QNFREMCIEQ DGRVHLTVVY FGKEEINEVK GILENTSKAA NFRNFTFIQL NGEFSRGKGL DVGARFWKGS NVLLFFCDVD IYFTSEFLNT CRLNTQPGKK VFYPVLFSQY NPGIYGHHD AVPPLEQQLV IKKETGFWRD FGFGMTCQYR SDFINIGGFD LDIKGWGGED VHLYRKY LHS NLIVVRTPVR GLFHLWHEKR CMDELTPEQY KMCMQSKAMN EASHGQLGML VFRHEIEAHL RKQKQKTSSK KT 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

Product Details

have a special request, please contact us.

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, Western Blot

Grade:

custom-made

Target Details

Target:

CSGALNACT1

Alternative Name:

CSGALNACT1 ([CSGALNACT1 Products](#))

Background:

Chondroitin sulfate N-acetylgalactosaminyltransferase 1 (CsGalNAcT-1) (EC 2.4.1.174) (Chondroitin beta-1,4-N-acetylgalactosaminyltransferase 1) (Beta4GalNAcT-1),FUNCTION: Transfers 1,4-N-acetylgalactosamine (GalNAc) from UDP-GalNAc to the non-reducing end of glucuronic acid (GlcUA). Required for addition of the first GalNAc to the core tetrasaccharide linker and for elongation of chondroitin chains. Important role in chondroitin chain biosynthesis in cartilage formation and subsequent endochondral ossification (PubMed:11788602, PubMed:12163485, PubMed:12446672, PubMed:17145758, PubMed:31705726). Moreover, is involved in the metabolism of aggrecan (By similarity). {ECO:0000250|UniProtKB:Q8BJQ9, ECO:0000269|PubMed:11788602, ECO:0000269|PubMed:12163485, ECO:0000269|PubMed:12446672, ECO:0000269|PubMed:17145758, ECO:0000269|PubMed:21160489, ECO:0000269|PubMed:27599773, ECO:0000269|PubMed:31705726}.

Target Details

Molecular Weight:	61.3 kDa
UniProt:	Q8TDX6
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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months