

Datasheet for ABIN7556026
XYLT1 Protein (AA 1-959) (His tag)



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Overview

Quantity:	1 mg
Target:	XYLT1
Protein Characteristics:	AA 1-959
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This XYLT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat XYLT1 Protein expressed in mammalien cells.
Sequence:	MVAAPCARRL ARRSHSALLA ALTVLLLQTL VVWNFSSLDS GAGERRGGAA VGGGEQPPPA PAPRRERRDL PAEPAAARGG GGGGGGGGGG RGPQARARGG GPGEPRGQQP ASRGALPARA LDPHPSPLIT LETQDGYFSH RPKEKVRTDS NNENSVPKDF ENVDNSNFAP RTQKQKHQPE LAKKPPSRQK ELLKRKLEQQ EKGKGHTFPG KGPGEVLPPG DRAAANSSHG KDVSRRPPHAR KTGGSSPETK YDQPPKCDIS GKEAISALSR AKSKHCRQEI GETYCRHKLK LLMPEKVTRF CPLEGKANKN VQWDEDSVEY MPANPVRIAF VLVVHGRASR QLQRMFKAIY HKDHFYIYHV DKRSNYLHRQ VLQVSRQYSN VRVTPWRMAT IWGGASLLST YLQSMRDLE MTDWPWDFFI NLSAADYPIR TNDQLVAFLS RYRDMNFLKS HGRDNARFIR KQGLDRLFLE CDAHMWRLGD RRIPEGIAVD GGSDFWLLNR RFVEYVTFST DDLVTKMKQF YSYTLLPAES FFHTVLENSP HCDTMVDNNL RITNWNRKLG CKCQYKHIVD WCGCSPNDFK PQDFHRFQQT ARPTFFARKF EAVVNQEIIG QLDYYLYGNY PAGTPGLRSY WENVYDEPDG IHSLSDVTLT LYHSFARLGL

Product Details

RRAE^TSLHTD GENS^CRYYPM GHPASVHLYF LADRFQGLI KHHATNLAVS KLETLETWVM
PKKVFKIASP PSDFGRLQFS EVGTDWDAKE RLFRNFGGLL GPMDEPVGMQ KWGKGPNTV
TVIWVDPVNV IAATYDILIE STAEFTHYKP PLNLPLRPGV WTVKILHHWV PVAETKFLVA
PLTFSNRQPI KPEEALKLHN GPLRNAYMEQ SFQSLNPVLS LPINPAQVEQ ARRNAASTGT
ALEGWLDSLV GGMWTAMDIC ATGPTACPVM QTCSQTAWSS FSPDPKSELG AVKPDGRLR

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.

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:

XYLT1

Alternative Name:

XYLT1 ([XYLT1 Products](#))

Background:

Xylosyltransferase 1 (EC 2.4.2.26) (Peptide O-xylosyltransferase 1) (Xylosyltransferase I) (XT-I) (XyIT-I),FUNCTION: Catalyzes the first step in the biosynthesis of chondroitin sulfate and dermatan sulfate proteoglycans, such as DCN. Transfers D-xylose from UDP-D-xylose to specific serine residues of the core protein (PubMed:15461586, PubMed:17189265, PubMed:24581741, PubMed:23982343). Required for normal embryonic and postnatal skeleton

Target Details

development, especially of the long bones (PubMed:24581741, PubMed:23982343). Required for normal maturation of chondrocytes during bone development, and normal onset of ossification (By similarity). {ECO:0000250|UniProtKB:Q811B1, ECO:0000269|PubMed:15461586, ECO:0000269|PubMed:17189265, ECO:0000269|PubMed:23982343, ECO:0000269|PubMed:24581741}.

Molecular Weight: 107.6 kDa

UniProt: [Q86Y38](#)

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