

Datasheet for ABIN7553888
EXT1 Protein (AA 1-746) (His tag)



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Overview

Quantity:	1 mg
Target:	EXT1
Protein Characteristics:	AA 1-746
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat EXT1 Protein expressed in mammalien cells.
Sequence:	<p>MQAKKRYFIL LSAGSCLALL FYFGGLQFRA SRSHSRREEH SGRNGLHHPS PDHFWPRFPD ALRPFVPWDQ LENEDSSVHI SPRQKRDANS SIYKGGKCRM ESCDFTLCK KNGFKVYVYP QQKGEKIAES YQNILAAIEG SRFYTS DPSQ ACLFVLSLDT LDRDQLSPQY VHNLRSKVQS LHLWNNGRNH LIFNLYSGTW PDYTEDVGF D IGQAMLAKAS ISTENFRPNF DVSIPLFSKD HPRTGGGERG LKFNTIPPLR KYMLVFKGKR YLTGIGSDTR NALYHVHNGE DVVLLTTCKH GKDWQKHKDS RCDRDNTEYE KYDYREMLHN ATFCLVPRGR RLGSFRFLEA LQAACVPVML SNGWELPFSE VINWNQAAVI GDERLLLQIP STIRSIHQDK ILALRQQTQF LWEAYFSSVE KIVLTTLEII QDRIFKHISR NSLIWNKHPG GLFVLPQYSS YLGDFPYYYA NLGLKPPSKF TAVIHAVTPL VSQSQPVLKL LVAAAKSQYC AQIIVLWNC D KPLPAKHRWP ATAVPVVIE GESKVMSSRF LPYDNIITDA VLSLDEDTV L STTEVDFAFT VWQSFPERIV GYPARSHFWD NSKERWGYTS KWTNDYSMVL TGAAYHKYY HYLYSHYLP A SLKNMVDQLA NCEDILMNFL</p>

Product Details

VSAVTKLPPI KVTQKKQYKE TMMGQTSRAS RWADPDHFAQ RQSCMNTFAS WFGYMPLIHS
QMRLDPVLFK DQVSILRKKY RDIERL **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:

EXT1

Alternative Name:

EXT1 ([EXT1 Products](#))

Background:

Exostosin-1 (EC 2.4.1.225) (Exostosin glycosyltransferase 1) (Heparan sulfate co-polymerase subunit EXT1) (Multiple exostoses protein 1) (N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase),FUNCTION: Glycosyltransferase forming with EXT2 the heterodimeric heparan sulfate polymerase which catalyzes the elongation of the heparan sulfate glycan backbone (PubMed:9620772, PubMed:10639137, PubMed:22660413, PubMed:36402845, PubMed:36593275). Glycan backbone extension consists in the alternating transfer of (1->4)-beta-D-GlcA and (1->4)-alpha-D-GlcNAc residues from their respective UDP-sugar donors. Both EXT1 and EXT2 are required for the full activity of the polymerase since EXT1 bears the N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase activity within the complex

Target Details

while EXT2 carries the glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase activity (PubMed:36402845, PubMed:36593275). Heparan sulfate proteoglycans are ubiquitous components of the extracellular matrix and play an important role in tissue homeostasis and signaling (PubMed:9620772, PubMed:10639137, PubMed:22660413, PubMed:11391482). {ECO:0000269|PubMed:10639137, ECO:0000269|PubMed:11391482, ECO:0000269|PubMed:22660413, ECO:0000269|PubMed:36402845, ECO:0000269|PubMed:36593275, ECO:0000269|PubMed:9620772}.

Molecular Weight: 86.3 kDa

UniProt: [Q16394](#)

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