

Datasheet for ABIN7565247

EXTL3 Protein (AA 1-918) (His tag)



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Overview

Quantity:	1 mg
Target:	EXTL3
Protein Characteristics:	AA 1-918
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXTL3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Extl3 Protein expressed in mammalian cells.
Sequence:	<p>MTGYTMLRNG GVGNGGQTCM LRWSNRIRLT WLSFTLFIL VFFPLIAHYY LTTLDEADEA</p> <p>GKRIFGPRAG SELCEVKHVL DLCRIRESVS EELLQLEAKR QELNSEIAKL NLKIEACKKS</p> <p>IENAKQDLLQ LKNVISQTEH SYKELMAQNN PKLSLPIRL PEKDDAGLPP PKVTRGCRLH</p> <p>NCFDYSRCPL TSGFPVYVYD SDQFAFGSYL DPLVKQAFQA TVRANVYVTE NAAIACLYVV</p> <p>LVGEMQEPTV LRPADLEKQL FSLPHWRTDG HNHVIINLSR KSDTQNLLYN VSTGRHVAQS</p> <p>TFYAAQYRAG FDLVVSPLVH AMSEPNFMEI PPQVPVKRKY LFTFQGEKIE SLRSSLQEAR</p> <p>SFEEEMEGDP PADYDDRIIA TLKAVQDSKL DQVLVEFTCK NQPKPSLPTE WALCGEREDR</p> <p>LELLKLSTFA LIITPGDPHL LISSGCATRL FEALEVGAVP VVLGEQVQLP YHDMQLQWNEA</p> <p>ALVVPKPRVT EVHFLLRSLS DSDLLAMRRQ GRFLWETYFS TADSIFNTVL AMIRTRIQIP</p> <p>AAPIREEVAA EIPHRSGKAA GTDPNMADNG DLDLGPVETE PPYASPKYLR NFTLTVTDCY</p> <p>RGWNSAPGPF HLPHTPFDP VLPSEAKFLG SGTGFRPIGG GAGGSGKEFQ AALGGNVQRE</p> <p>QFTVVMLTYE REEVLMSLE RLNGLPYLNK VVVVWNSPKL PSDDLWPDV GVPIMVVRTE</p>

Product Details

KNSLNNRFLP WNEIETEAIL SIDDDAHLRH DEIMFGFRVW REARDRIVGF PGRYHAWDIP
HQSWLYNSNY SCELSMVLTG AAFHKKYYAY LYSYVMPQAI RDMVDEYINC EDIAMNFLVS
HITRKPPIKV TSRWTFRCPG CPQALSHDDS HFHERHKCIN FFKVYGYMP LLYTQFRVDS
VLFKTRLPHD KTKCFKFI **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

Target: EXTL3

Alternative Name: Extl3 ([EXTL3 Products](#))

Background: Exostosin-like 3 (EC 2.4.1.223) (Glucuronyl-galactosyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase) (Multiple exostosin-like protein 3),FUNCTION: Glycosyltransferase which regulates the biosynthesis of heparan sulfate (HS) (PubMed:19336225). Initiates HS synthesis by transferring the first N-acetyl-alpha-D-glucosamine (alpha-GlcNAc) residue (GlcNAc-T-I activity) to the tetrasaccharide linker (GlcA-Gal-

Target Details

Gal-Xyl-)Ser core linker. May also transfer alpha-GlcNAc residues during HS elongation (GlcNAcT-II activity). Lacks glucuronyl transferase II (GlcAT-II) activity. Important for both skeletal development and hematopoiesis, through the formation of HS proteoglycans (HSPGs) (By similarity). Through the synthesis of HS, regulates postnatal pancreatic islet maturation and insulin secretion (PubMed:19336225). {ECO:0000250|UniProtKB:O43909, ECO:0000269|PubMed:19336225}., FUNCTION: Receptor for REG3A, REG3B and REG3G, induces the activation of downstream signaling pathways such as PI3K-AKT or RAS-RAF-MEK-ERK signaling pathway (PubMed:28811323, PubMed:36240758, PubMed:35263589). Required for the function of REG3A in regulating keratinocyte proliferation and differentiation (By similarity). Required for the inhibition of skin inflammation mediated by REG3A through the activation of PI3K-AKT-STAT3 pathway (By similarity). Required for the function of REGA and REG3G in glucose tolerance in pancreas (PubMed:36240758). Expressed in microglia, is activated by nociceptor-derived REG3G in response to endotoxins, leading to the inhibition of kynurenine pathway to prevent endotoxic death (PubMed:35263589). {ECO:0000250|UniProtKB:O43909, ECO:0000269|PubMed:28811323, ECO:0000269|PubMed:35263589, ECO:0000269|PubMed:36240758}.

Molecular Weight: 104.5 kDa

UniProt: [Q9WVL6](#)

Pathways: [Glycosaminoglycan Metabolic Process](#), [ER-Nucleus Signaling](#)

Application Details

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.

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