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Datasheet for ABIN7553826  
**EXTL3 Protein (AA 1-919) (His tag)**

## Overview

Quantity:	1 mg
Target:	EXTL3
Protein Characteristics:	AA 1-919
Origin:	Human
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:	MTGYTMLRNG GAGNGGQTCM LRWSNRIRLT WLSFTLFVIL VFFPLIAHYY LTTLDEADEA GKRIFGPRVG NELCEVKHVL DLCRIRESVS EELLQLEAKR QELNSEIAKL NLKIEACKKS IENAKQDLLQ LKNVISQTEH SYKELMAQNN PKLSLPIRLL PEKDDAGLPP PKATRGCR LH NCFDYSRCPL TSGFPVYVYD SDQFVFGSYL DPLVKQAFQA TARANVYVTE NADIACLYVI LVGEMQEPVW LRPAALEKQL YSLPHWRTDG HNHVIINLSR KSDTQNLLYN VSTGRAMVAQ STFYTVQYRP GFDLVVSPV HAMSEPNFME IPPQVPVCRK YLFTFQGEKI ESLRSSLQEA RSFEEEMEGD PPADYDDR II ATLKAVQDSK LDQVLVEFTC KNQPKPSLPT EWALCGERED RLELLKLSTF ALIITPGDPR LVISSGCATR LFEALEVGAV PVVLGEQVQL PYQDMLQWNE AALVVPKPRV TEVHFLRSL SDSDLLAMRR QGRFLWETYF STADSIFNTV LAMIRTRIQI PAAPIREEAA AEIPHRSGKA AGTDPNMADN GDLDLGPVET EPPYASPRYL RNFTLTVTDF YRSWNCAPGP FHLFPHTPFD PVL PSEAKFL GSGTGFRPIG GGAGGSGKEF QAALGGNVPR EQFTVVMLTY EREEVLMNSL ERLNGLPYLN KVVVVWNSPK LPSEDLLWPD IGV PIMVVRT

## Product Details

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EKNSLNNRFL PWNEIETEA I LSIDDDAHLR HDEIMFGFRV WREARDRIVG FPGRYHAWDI  
PHQSWLYNSN YSCELSMVL T GAAFFHKYYA YLYSYVMPQA IRDMVDEYIN CEDIAMNFLV  
SHITRKPIK VTSRWTFRC P GCPQALSHDD SHFHERHKCI NFFVKVYGYM PLYTQFRVD  
SVLFKTRLPH DKTKCFKI **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:** EXTL3

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

**Background:** Exostosin-like 3 (EC 2.4.1.223) (EXT-related protein 1) (Glucuronyl-galactosyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase) (Hereditary multiple exostoses gene isolog) (Multiple exostosis-like protein 3) (Putative tumor suppressor protein EXTL3),FUNCTION: Glycosyltransferase which regulates the biosynthesis of heparan sulfate (HS) (PubMed:28132690, PubMed:28148688). Initiates HS synthesis by transferring the first N-

## Target Details

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acetyl-alpha-D-glucosamine (alpha-GlcNAc) residue (GlcNAcT-I activity) to the tetrasaccharide linker (GlcA-Gal-Gal-Xyl)-Ser core linker (PubMed:11390981, PubMed:35676258). May also transfer alpha-GlcNAc residues during HS elongation (GlcNAcT-II activity) (PubMed:11390981, PubMed:35676258). Lacks glucuronyl transferase II (GlcAT-II) activity (PubMed:11390981, PubMed:35676258). Important for both skeletal development and hematopoiesis, through the formation of HS proteoglycans (HSPGs) (PubMed:28132690, PubMed:28148688, PubMed:11390981, PubMed:22727489, PubMed:35676258). Through the synthesis of HS, regulates postnatal pancreatic islet maturation and insulin secretion (By similarity). {ECO:0000250|UniProtKB:Q9WVL6, ECO:0000269|PubMed:11390981, ECO:0000269|PubMed:22727489, ECO:0000269|PubMed:28132690, ECO:0000269|PubMed:28148688, ECO:0000269|PubMed:35676258}. 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:22727489, PubMed:34099862, PubMed:27830702). Required for the function of REG3A in regulating keratinocyte proliferation and differentiation (PubMed:22727489). Required for the inhibition of skin inflammation mediated by REGA through the activation of PI3K-AKT-STAT3 pathway (PubMed:27830702). Required for the function of REGA and REG3G in glucose tolerance in pancreas (PubMed:19158046). Expressed in microglia, is activated by nociceptor-derived REG3G in response to endotoxins, leading to the inhibition of kynurenine pathway to prevent endotoxic death (By similarity). {ECO:0000250|UniProtKB:Q9WVL6, ECO:0000269|PubMed:19158046, ECO:0000269|PubMed:22727489, ECO:0000269|PubMed:27830702, ECO:0000269|PubMed:34099862}.

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Molecular Weight:	104.7 kDa
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UniProt:	<a href="#">O43909</a>
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Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a> , <a href="#">ER-Nucleus Signaling</a>
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## 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
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## Handling

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Format:	Liquid
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## Handling

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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