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Datasheet for ABIN7553850  
**EXT2 Protein (AA 1-718) (His tag)**

## Overview

Quantity:	1 mg
Target:	EXT2
Protein Characteristics:	AA 1-718
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXT2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat EXT2 Protein expressed in mammalien cells.
Sequence:	MCASVKYNIR GPALIPRMKT KHRIYYITLF SIVLLGLIAT GMFQFWPHSI ESSNDWNVEK RSIRDVPVVR LPADSPIPER GDLSCRMHTC FDVYRCGFNP KNKIKVYIYA LKKYVDDFGV SVSNTISREY NELLMAISDS DYYTDDINRA CLFVPSIDVL NQNTLRIKET AQAMAQLSRW DRGTNHLLFN MLPGGPPDYN TALDVPRDRA LLAGGGFSTW TYRQGYDVSI PVYSPLSAEV DLPEKGPGR QYFLLSSQVG LHPEYREDLE ALQVKHGESV LVLDKCTNLS EGVLSVRKRC HKHQVFDYPQ VLQEATFCVV LRGARLGQAV LSDVLQAGCV PVVIADSYIL PFSEVLDWKR ASVVVPEEKM SDVYSILQSI PQRQIEEMQR QARWFWEAYF QSIKAIALAT LQIINDRIYP YAAISYEEWN DPPAVKWGSV SNPLFLPLIP PQSQGFTAIV LTYDRVESLF RVITEVSKVP SLSKLLVWN NQKNPPEDS LWPKIRVPLK VVRTAENKLS NRFFPYDEIE TEAVLAIDDD IIMLTSDLEQ FGYEVWREFP DRLVGYPGRL HLWDHEMNKW KYESEWTNEV SMVLTGAAFY HKYFNYLYTY KMPGDIKNWV DAHMNCEDIA MNFLVANVTG KAVIKVTPRK KFKCPECTAI

DGLSLDQTHM VERSECINKF ASVFGTMPLK VVEHRADPVL YKDDFPEKLLK SFPNIGSL **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

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### Target:

EXT2

### Alternative Name:

EXT2 ([EXT2 Products](#))

### Background:

Exostosin-2 (EC 2.4.1.224) (Exostosin glycosyltransferase 2) (Glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N-acetylglucosaminyltransferase) (Heparan sulfate co-polymerase subunit EXT1) (Multiple exostoses protein 2),FUNCTION: Glycosyltransferase forming with EXT1 the heterodimeric heparan sulfate polymerase which catalyzes the elongation of the heparan sulfate glycan backbone (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

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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:22660413, PubMed:19344451). {ECO:0000269|PubMed:19344451, ECO:0000269|PubMed:22660413, ECO:0000269|PubMed:36402845, ECO:0000269|PubMed:36593275}.

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Molecular Weight: 82.3 kDa

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UniProt: [Q93063](#)

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Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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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