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Datasheet for ABIN3079630

## EXT2 Protein (AA 47-718) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	EXT2
Protein Characteristics:	AA 47-718
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXT2 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

#### Product Details

Sequence: PHSIESSNDW NVEKRSIRDV PVVRLPADSP IPERGDLSR MHTCFDVYRC GFNPKNKIKV  
YIYALKKYVD DFGVSVSNTI SREYNELLMMA ISDSDYTTDD INRACLFVPS IDVLNQNTLR  
IKETAQAMAQ LSRWDRGTNH LLFNMLPGGP PDYNTALDVP RDRALLAGGG FSTWTYRQGY  
DVSIPVYSPL SAEVDLPEKG PGPRQYFLLS SQVGLHPEYR EDLEALQVKH GESVLVLDKC  
TNLSEGVLSV RKRCHKHQVF DYPQVLQEAT FCVVLRGARL GQAVLSDVLQ AGCVPVIAD  
SYILPFSEVL DWKRASVVVP EEKMSDVYSI LQSIPQRQIE EMQRQARWFW EAYFQSIKAI  
ALATLQIIND RIYPYAAISY EEWNDPPAVK WGSVSNPLFL PLIPPQSQGF TAILTYDRV  
ESLFRVITEV SKVPSLSKLL VVWNNQKNKP PEDSLWPKIR VPLKVVRTAE NKLSNRFFPY  
DEIETEAVLA IDDDIIMLTS DELQFGYEVW REFDPRLVGY PGRLHLWDHE MNKWKEYESEW  
TNEVSMVLTG AAFYHKYFNY LYTYKMPGDI KNWVDAHMCN EDIAMNFLVA NVTGKAVIKV  
TPRKKFKCPE CTAIDGLSLD QTHMVERSEC INKFASVFGT MPLKVVEHRA DPVLYKDDFP  
EKLSFPNIG SL

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human EXT2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
  2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
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Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility:

0.22 µm filtered

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Endotoxin Level:

Protein is endotoxin free.

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Grade:

Crystallography grade

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## Target Details

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Target:	EXT2
Alternative Name:	EXT2 ( <a href="#">EXT2 Products</a> )
Background:	Glycosyltransferase required for the biosynthesis of heparan-sulfate. The EXT1/EXT2 complex possesses substantially higher glycosyltransferase activity than EXT1 or EXT2 alone. Appears to be a tumor suppressor. Required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413). {ECO:0000269 PubMed:22660413}.
Molecular Weight:	77.9 kDa Including tag.
UniProt:	<a href="#">Q93063</a>
Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a>

## 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.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process