

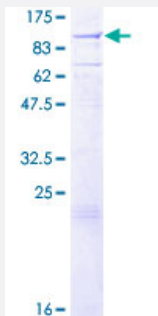
Full-Length

EXT1 (Human) Recombinant Protein (P01)

Catalog # H00002131-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human EXT1 full-length ORF (NP_000118.2, 1 a.a. - 746 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MQAKKRYFILLSAGSCLALLFYFGGLQFRASRSHSRREEHSGRNLHHPSPDHFWRFPDALRP
FVPWDQLENESSVHISPRQKRDANSSYKGGKCRMESCFDFTLCKKNGFKVYVYPQQKGEKIA
ESYQNILAAIEGSRFYTSDPSQACLFVLSLDTLDRDQLSPQYVHNLRSKVQSLHLWNGRNHLIFN
LYSGTWPDYTEDVGFDIGQAMLAASISTENFRPNFDVSIPLFSKDHPRTGGERGFLKFNTIPPLR
KYMLVFKGKRYLTGIGSDTRNALYHVHNGEDVLLTTCKHKGKDQWKHKDSRCDRDNTEYEKYDY
REMLHNATFCLVPRGRRLGSFRFLEALQAACVPVMLSNGWELPFSEVINWNQAAVIGDERLLLQI
PSTIRSIHQDKILALRQQTQFLWEAYFSSVEKMLTTLEIIQDRIFKHISRNSLWNKHPGGLFVLPQYS
SYLGDFPYYYANLGLKPPSKFTAVIHAVTPLVSQSQPVLKLLVAAAKSQYCAQIMLVNCDKPLPA
KHRWPATAVPVVVIEGESKVMSSRFLPYDNIITDAVLSLDEDTVLTTEVDFAFTVWQSFPERVIG
YPARSHFWDNSKERWGYTSKWTNDYSMVL TGAAYHKYYHYLYSHYLPASLKNMVDQLANCEDIL
MNFLVSAVTKLPPIKVTQKKQYKETMMGQTSRASRWADPDHFAQRQSCMNTFASWFGYMPLIHS
QMRDPVLFKDQVSILRKKYRDIERL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

112.7

Interspecies Antigen Sequence

Mouse (99); Rat (99)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — EXT1

Entrez GeneID	2131
GeneBank Accession#	NM_000127.2
Protein Accession#	NP_000118.2
Gene Name	EXT1
Gene Alias	EXT, LGCR, LGS, TRPS2, ttv
Gene Description	exostosin 1
Omim ID	133700 215300 608177
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an endoplasmic reticulum-resident type II transmembrane glycosyltransferase involved in the chain elongation step of heparan sulfate biosynthesis. Mutations in this gene cause the type I form of multiple exostoses. [provided by RefSeq]
Other Designations	Langer-Giedion syndrome chromosome region N-acetylglucosaminyl-proteoglycan 4-beta-glucuronosyltransferase OTTHUMP00000066043 exostosin 1 glucuronosyl-N-acetylglucosaminyl-proteoglycan 4-alpha-N- acetylglucosaminyltransferase

Pathway

- [Heparan sulfate biosynthesis](#)
- [Metabolic pathways](#)

Disease

- [Exostoses](#)
- [Genetic Predisposition to Disease](#)
- [Growth Disorders](#)