
Product Data Sheet

Product Name: XYLT2 Human

Cat. No.: GP22403

Batch No.: 1

Product Data

Purity >98%

Source HEK293 Cells.

Physical Appearance solid

Shipping Condition Shipped at Room temp.

Synonyms

Xylosyltransferase 2; Peptide O-xylosyltransferase 1; Xylosyltransferase II; XT-II; XylIT-II; XYLT2; XT2.

Amino Acid Sequence

ASGLEEDEAG EKGRQRKPRP LDPGEGSKDT DSSAGRRGST GRRHGRWRGR
 AESPGVPVAK VVRAVTSRQR ASRRVPPAPP PEAPGRQNLS GAAAGEALVG
 AAGFPPHGDT GSVEGAPQPT DNGFTPKCEI VGKDALSALA RASTKQCQQE
 IANVVCLHQA GSLMPKAVPR HCQLTGKMSP GIQWDESQAQ QPMDGPPVRI
 AYMLVVHGRA IRQLKRLKA VYHEQHFFYI HVDKRSDYLH REVVELAQGY
 DNVRVTPWRM VTIWGGASLL TMYLRSMRDL LEVPGWAWDF FINLSATDYP
 TRTNEELVAF LSKNRDKNFL KSHGRDNSRF IKKQGLDRLF HECDSHMWRL
 GERQIPAGIV VDGGSDWFVL TRSFVEYVVY TDDPLVAQLR QFYTYTLLPA
 ESFFHTVLEN SLACETLVDN NLRVTNWNRK LGCKCQYKHI VDWCGCSPND
 FKPQDFLRLQ QVSRPTFFAR KFESTVNQEV LEILDFHLYG SYPPGTPALK
 AYWENTYDAA DGPSGLSDVM LTAYTAFARL SLHHAATAAP PMGTPLCRFE
 PRGLPSSVHL YFYDDHFQGY LVTQAVQPSA QGPAETLEMW LMPQGSLKLL
 GRSDQASRLQ SLEVGTDWDP KERLFRNFGG LLGPLDEPVA VQRWARGPNL
 TATVVWIDPT YVATSYDIT VDTETEVTQY KPPLSRPLRP GPWTVRLLQF
 WEPLGETRFL VLPLTFNRKL PLRKDDASWL HAGPPHNEYM EQSFQGLSSI
 LNLQPPELAE EAAQRHTQLT GPALAWTDR ELSSFWSVAG LCAIGPSPCP
 SLEPCRLTSW SSLSPDPKSE LGPVKADGRL RKLHHHHHHH.

Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. XYLT2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Formulation

XYLT2 filtered (0.4 μ m) and lyophilized in 0.05 M PBS and 0.075 M NaCl, pH 7.4.

Caution: Product has not been fully validated for medical applications. For research use only.

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Introduction

XYLT2 or Xylosyltransferase 2 is an enzyme which is expressed in ubiquitous and is part of the glycosyltransferases family. XYLT2 promotes proteoglycans formation by attaching GAG chains to the substrate protein via transfer of xylose molecule from the donor (nucleoside diphosphate) to the protein's serine residues. XYLT2 is present in the ER and the cis part of the Golgi, furthermore the protein is released to the extracellular matrix.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

XYLT2 Human Recombinant is a single, glycosylated polypeptide chain containing 839 amino acids (Gly37-Arg865, luminal domain, isoform 1, natural variant with Thr305) and having a molecular mass of 94.0kDa. XYLT2 is fused to an N-terminal linker (2 extra a.a), C-terminal linker (2 extra a.a) and C-terminal His-tag (6 extra a.a).

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