

Recombinant Human B3GAT3, His-tagged

Cat. No. B3GAT3-7603H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human B3GAT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	29-335aa
Description	Beta-1,3-glucuronyltransferase 3, also known as B3GAT3, is involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. This protein can also play a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. It shows strict specificity for Gal-beta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc.?
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	36.4 kDa (330aa)
AA Sequence	MGSSHHHHH SSGLVPRGSH MGSQPCDCLP PLRAAAEQLR QKDLRISQLQ AELRRPPAP AQPPEPEALP TIYVVTPTYA RLVQKAELVR LSQTLSLVPR LHWLLVEDAE GPTPLVSGLL AASGLLFTHL VVLTPKAQRL REGEPGWVHP RGVEQRNKAL DWLRGRGGAV GGEKDPPPPG TQGVVYFADD DNTYSRELFE

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EMRWTRGVSV WPVGLVGGLR FEGPQVQDGR VVGFTAWEP SRPFPVDMAG
FAVALPLLLD KPNAQFDSTA PRGHLESSLL SHLVDPKDLE PRAANCTRVL
VWHTRTEKPK MKQEEQLQRQ GRGSDPAIEV

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name B3GAT3 beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I) [Homo sapiens]

Official Symbol B3GAT3

Synonyms B3GAT3; beta-1,3-glucuronyltransferase 3 (glucuronosyltransferase I); galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3; GlcAT I; glcUAT-I; Sqv-8-like protein; UDP-GlcUA:Gal beta-1,3-Gal-R glucuronyltransferase; GLCATI;

Gene ID 26229

mRNA Refseq NM_012200

Protein Refseq NP_036332

MIM 606374

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UniProt ID	O94766
Chromosome Location	11q12
Pathway	Glycosaminoglycan biosynthesis - chondroitin sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, conserved biosystem; Glycosaminoglycan biosynthesis - heparan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - heparan sulfate, conserved biosystem; Glycosaminoglycan biosynthesis, linkage tetrasaccharide, organism-specific biosystem; Glycosaminoglycan biosynthesis, linkage tetrasaccharide, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase activity; manganese ion binding; metal ion binding; transferase activity;