

## Recombinant Human B3GAT3, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human B3GAT3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	29-335aa
<b>Description</b>	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.?
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
<b>Molecular Mass</b>	36.4 kDa (330aa)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGSQPCDCLP PLRAAAEQLR QKDLRISQLQ AELRRPPPAP 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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<b>UniProt ID</b>	O94766
<b>Chromosome Location</b>	11q12
<b>Pathway</b>	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;
<b>Function</b>	galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase activity; manganese ion binding; metal ion binding; transferase activity;

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