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# Recombinant human B3GAT3 protein

Catalog Number: ATGP2114

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

29-335aa

#### UniProt No.

094766

#### **NCBI Accession No.**

NP 036332

### **Alternative Names**

Beta-13-glucuronyltransferase 3, Beta-1,3-glucuronyltransferase 3, GLCATI

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

36.4 kDa (330aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

### **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 beta1-0-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc. Recombinant human B3GAT3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

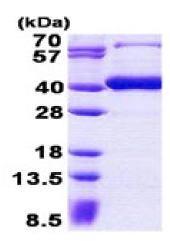
MGSSHHHHHH SSGLVPRGSH MGSQPCDCLP PLRAAAEQLR QKDLRISQLQ AELRRPPPAP AQPPEPEALP TIYVVTPTYA RLVQKAELVR LSQTLSLVPR LHWLLVEDAE GPTPLVSGLL AASGLLFTHL VVLTPKAQRL REGEPGWVHP RGVEQRNKAL DWLRGRGGAV GGEKDPPPG TQGVVYFADD DNTYSRELFE EMRWTRGVSV WPVGLVGGLR FEGPQVQDGR VVGFHTAWEP SRPFPVDMAG FAVALPLLLD KPNAQFDSTA PRGHLESSLL SHLVDPKDLE PRAANCTRVL VWHTRTEKPK MKQEEQLQRQ GRGSDPAIEV

#### **General References**

Pedersen L.C., et al. (2000) J. Biol. Chem. 275:34580-34585 Tone Y., et al. (2008) J. Biol. Chem. 283:16801-16807

# **DATA**

# **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

