

# Product information



## B3GAT3, 29-335aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2114

**Full name:** Beta-1,3-glucuronyltransferase 3

**NCBI Accession No.:** NP\_036332

**Synonyms:** GLCATI

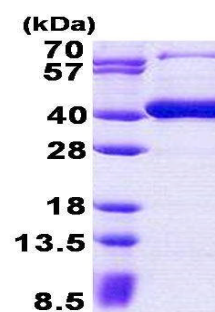
**Description:** Beta-1,3-glucuronyltransferase 3, also known as B3GAT3, is involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. This protein can also play a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. It shows strict specificity 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. Recombinant human B3GAT3 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

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

**Molecular Weight:** 36.4 kDa (330aa), confirmed by MALDI-TOF

**Purity:** > 90% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSQPCDCLP PLRAAAEQLR QKDLRISQLQ AELRRPPAP AQPPEPEALP TIYVVTPTYA RLVQKAELVR  
LSQTLVLVPR LHWLLVEDAE GPTPLVSGLL AASGLLFTHL VVLTPKAQRL REGEQWVHP RGVEQRNKAL DWLRGRGGAV GGEKDP PPPG  
TQGVVYFADD DNTYSRELFE EMRWTRGVSV WPVGLVGGLR FEGPQVQDGR VVGFTAWEP SRFPVDMAG 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

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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