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# Recombinant human C1GalT1/C1GalT1C1 protein

Catalog Number: ATGP2181

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

30-363aa

#### UniProt No.

**09NS00** 

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

NP 064541

#### **Alternative Names**

Core 1 synthase glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1, Core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1, C1GALT, T-synthase

### PRODUCT SPECIFICATION

## **Molecular Weight**

41.4 kDa (357aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

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

#### **Purity**

> 80% 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

C1GALT1 generates the common core 1 O-glycan structure, Gal-beta-1-3GalNAc-R, by the transfer of Gal from uDP-Gal to GalNAc-alpha-1-R. Core 1 is a precursor for many extended mucin-type O-glycans on cell surface and secreted glycoproteins. Studies in mice suggest that this gene plays a key role in thrombopoiesis and kidney homeostasis. Recombinant human C1GALT1 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**

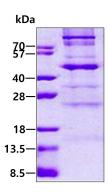
<MGSSHHHHHH SSGLVPRGSH MGS>LLGEKVD TQPNVLHNDP HARHSDDNGQ NHLEGQMNFN ADSSQHKDEN TDIAENLYQK VRILCWVMTG PQNLEKKAKH VKATWAQRCN KVLFMSSEEN KDFPAVGLKT KEGRDQLYWK TIKAFQYVHE HYLEDADWFL KADDDTYVIL DNLRWLLSKY DPEEPIYFGR RFKPYVKQGY MSGGAGYVLS KEALKRFVDA FKTDKCTHSS SIEDLALGRC MEIMNVEAGD SRDTIGKETF HPFVPEHHLI KGYLPRTFWY WNYNYYPPVE GPGCCSDLAV SFHYVDSTTM YELEYLVYHL RPYGYLYRYQ PTLPERILKE ISQANKNEDT KVKLGNP

#### **General References**

Ju T., et al. (2002) J. Biol. Chem. 277:178-186 Zhu L., et al. (2009) Kidney Int. 76:190-198

#### **DATA**

#### **SDS-PAGE**



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

