

**C1GALT1, 30-363aa, Human, His tag, E.coli**

**Cat.NO.: TP01383**

3th Edition

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

**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.

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

**Molecular Weight:**41.4 kDa (357aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSLLEKVDTPQPNVLHNDPHARHSDDNGQNHLEGQMNFNADSSQHKDENTDI  
AENLYQKVRILCWVMTGPQNLEKKAKHVKATWAQRCNKVLFMSSEENKDFPAVGLKTKEGRDQLYWKTIKAFQYV  
HEHYLEDADWFLKADDDTYVILDNLRWLLSKYDPEEPIYFGRRFKPYVKQGYMSGGAGYVLSKEALKRFVDAFKTD  
KCTHSSIEDLALGRCMEIMNVEAGDSRDTIGKETFHFPVPEHHLIKGYLPRTFWYWNYYPPVEGPGCCSDLAV  
SFHYVDSTTMYELEYLVYHLRPYGYLYRYQPTLPERILKEISQANKNEDTKVKLGNP

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bardford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.