
Product Data Sheet

Product Name: C1GALT1 Human
 Cat. No.: GP21450
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Core 1 Synthase; Glycoprotein-N-Acetylgalactosamine3-Beta-Galactosyltransferase 1; Core 1 Beta3-Gal-T1; Core 1 O-Glycan T-Synthase; Core 1 UDP-Galactose:N-Acetylgalactosamine-Alpha-R Beta 1;3 Galactosyltransferase1; B3Gal-T8; EC 2.4.1.122; Core 1 Beta3-Gal-T; C1GALT; T-synthase; Glycoprotein-N-Acetylgalactosamine3-Beta-Galactosyltransferase 1; Beta-1;3-galactosyltransferase; C1GalT1; Core 1Beta1;3-Galactosyltransferase 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSLGKVD TQPNVLHNDP HARHSDDNGQ NHLEGQMNFN ADSSQHKDEN TDIAENLYQK VRILCWVMTG PQNLEKKAKH VKATWAQRCN KVLFSSEEN KDFPAVGLKT KEGRDQLYWK TIKAFQYVHE HYLEADWFL KADDDTYVIL DNLRWLLSKY DPEEPIYFGR RFKPYVKQGY MSGGAGYVLS KEALKRFVDA FKTDKCTHSS SIEDLALGRC MEIMNVEAGD SRDTIGKETF HPFVPEHHLI KGYLPRTFWY WNYNYPPVE GPGCCSDLAV SFHYVDSTTM YELEYLVYHL RPYGYLYRYQ PTLPERILKE ISQANKNEDT KVKLGNP.		
Formulation	C1GALT1 protein solution (0.5mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Core1 Beta3-Gal-T1 also known as, C1GALT1 creates the common core 1 O-glycanstructure, Gal-beta-1-3GalNAc-R, by the transfer of Gal from UDP-Gal toGalNAc-alpha-1-R. Core 1 is a precursor for lots of extended mucin-typeO-glycans on cell surfaceand secreted glycoproteins. Studies in mice have shown that this gene takes amain role in angiogenesis, thrombopoiesis and kidney homeostasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

C1GALT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 357 amino acids (30-363 a.a) and having a molecular mass of 41.4kDa.

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