

Recombinant Human ST3GAL3, GST-tagged

Cat. No. ST3GAL3-234H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ST3GAL3 (1 a.a. - 390 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The protein encoded by this gene is a type II membrane protein that catalyzes the transfer of sialic acid from CMP-sialic acid to galactose-containing substrates. The encoded protein is normally found in the Golgi apparatus but can be proteolytically processed to a soluble form. This protein is a member of glycosyltransferase family 29. Mutations in this gene have been associated with autosomal recessive nonsyndromic mental retardation-12 (MRT12). Multiple transcript variants encoding several different isoforms have been found for this gene.
Molecular Mass	70.2 kDa
AA Sequence	MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEEDSSKYSHSSSPQEKPVADSV VLSFDSAGQTLGSEYDRL GFLNLDSKLP AELATKYANFSEGACKPGYASALMTAIF PRFSKPAPMFLDDSF RKWARIREFVPPFGIKGQDNL IKAILSVTKEYRLTPALDSLRC RRCIIVGNNGGVLANKSLGSRIDDYDIVRLNSAPVKGF EKDVGSKTTLRITYP EGAM QRPEQYERDSLFLVLAGFKWQDFKWLKYIVYKERV SASDGFWKSVATRVPKEPPEIR ILNPYFIQEAAFTLI GLPFNNGLMGRGNIPTLGSAVMTALHGCDEVAVAGFGYDMS TPNAPLHYEYTVRMAAIKESWTHNIQREKEFLR KLVKARVITDLSSGI

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Applications	ELISA; WB-Re; AP; Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	ST3GAL3 ST3 beta-galactoside alpha-2,3-sialyltransferase 3 [Homo sapiens (human)]
Official Symbol	ST3GAL3
Synonyms	ST3GAL3; ST3N; MRT12; SIAT6; EIEE15; ST3GALII; ST3GalIII; ST3 beta-galactoside alpha-2,3-sialyltransferase 3; CMP-N-acetylneuraminate-beta-1,4-galactoside alpha-2,3-sialyltransferase; ST3Gal III; alpha 2,3-ST 3; alpha-2,3-sialyltransferase II; alpha 2,3-sialyltransferase III; Gal beta-1,3(4)GlcNAc alpha-2,3-sialyltransferase; sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase); NP_001257388.1; NP_001257389.1; NP_001257390.1; NP_001257391.1; NP_001257392.1; NP_001257393.1; NP_001257394.1; EC 2.4.99.6; NP_001257395.1; NP_006270.1; NP_777623.2; NP_777624.1; NP_777625.1; NP_777626.1; NP_777627.1; NP_777628.2; NP_777629.1; NP_777630.1; NP_777631.2
Gene ID	6487
mRNA Refseq	NM_174964
Protein Refseq	NP_777624

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MIM	606494
UniProt ID	Q11203
Chromosome Location	1p34.1
Pathway	Glycosaminoglycan biosynthesis - keratan sulfate; Glycosphingolipid biosynthesis - lacto and neolacto series; MPS I - Hurler syndrome
Function	N-acetyllactosaminide alpha-2,3-sialyltransferase activity; beta-galactoside (CMP) alpha-2,3-sialyltransferase activity

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