Recombinant Human ST3GAL3, His-tagged

Cat. No. ST3GAL3-232H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ST3GAL3 partial(aa 218 to 359) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	218 to 359
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 nonsymdromic mental retardation-12 (MRT12). Multiple transcript variants encoding several different isoforms have been found for this gene.
Form	Lyophilised
AA Sequence	QDFKWLKYIVYKERVSASDGFWKSVATRVPKEPPEIRILN PYFIQEAAF TLIGLPFNN GLMGRGNIPTLGSVAVTMAL HGCDEVAVAGFGYDMSTPNA PLHYYETVRMAAIKE SWT HNIQREKEFLRKLVKARVITDLSSGI
Applications	Mass Spectrometry; SDS-PAGE
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	Reconstitution Dependent
Preservative	None
Reconstitution	Reconstitute with 63 µaqua dest.

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-acetyllacosaminide 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_006279
Protein Refseq	NP_006270
MIM	606494

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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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