

CMP-N-acetylneuraminate-beta-1,4-galactoside alpha-2,3-sialyltransferase Recombinant Protein | ST3GAL3 recombinant protein

Recombinant Human CMP-N-acetylneuraminate-beta-1,4-galactoside alpha-2,3-sialyltransferase

CATALOG # AAA117739	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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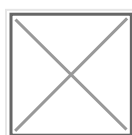
PRODUCT SYNONYMS

CMP-N-acetylneuraminate-beta-1; 4-galactoside alpha-2; 3-sialyltransferase; Recombinant Human CMP-N-acetylneuraminate-beta-1; Beta-galactoside alpha-2; 3-sialyltransferase 3; Alpha 2; 3-ST 3; Gal beta-1; 3(4) GlcNAc alpha-2; 3 sialyltransferase; N-acetyllactosaminide alpha-2; ST3Gal III; ST3GalIII; ST3N; Sialyltransferase 6; ST3GAL3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	29-375aa;Partial
Sequence	KLHLLQWEED SNSVLSFDS AGQTLGSEYD RLGFLNLDS KLPAELATKY ANFSEGACKP GYASALMTAI FPRFSKPAPM FLDDSRKWA RIREFVPPFG IKGQDNLIKA ILSVTKEYRL TPALDSLRCR RCIIVGNNGV LANKSLGSRI DDYDIVRLN SAPVKGFEKD VGSKTTLRIT YPEGAMQRPE QYERDSLFLV AGFKWQDFKW LKYIVYKERV SASDGFWKSV ATRVPKEPPE IRILNPYFIQ EAAFTLIGLP FNNGLMGRGN IPTLGSAVAT MALHGCDEVA VAGFGYDMST PNAPLHYET VRMAAIKESW THNIQREKEF LRKLVKARVI TDLSSGI
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ST3GAL3 recombinant protein	Catalyzes the formation of the NeuAc-alpha-2,3-Gal-beta-1,4-GlcNAc-, NeuAc-alpha-2,3-Gal-beta-1,3-GlcNAc- or NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc- sequences found in terminal carbohydrate groups of glycoproteins and glycolipids. The highest activity is toward Gal-beta-1,3-GlcNAc and the lowest toward Gal-beta-1,3-GalNAc.
Product Categories/Family for ST3GAL3 recombinant protein	Signal Transduction

References

Cloning and expression of human Gal beta 1,3(4) GlcNAc alpha 2,3-sialyltransferase.Kitagawa H., Paulson J.C.Biochem. Biophys. Res. Commun. 194:375-382(1993) Structural variations of the alpha 2,3-sialyltransferase III, ST3GalIII, transcripts in human peripheral white blood cells.Grahn A., Larson G.Structural variations of the alpha 2,3-sialyltransferase III, ST3GalIII, transcripts in human fetal brain.Grahn A., Larson G. The DNA sequence and biological annotation of human chromosome 1.Gregory S.G., Barlow K.F., McLay K.E., Kaul R., Swarbreck D., Dunham A., Scott C.E., Howe K.L., Woodfine K., Spencer C.C.A., Jones M.C., Gillson C., Searle S., Zhou Y., Kokocinski F., McDonald L., Evans R., Phillips K., Atkinson A., Cooper R., Jones C., Hall R.E., Andrews T.D., Lloyd C., Ainscough R., Almeida J.P., Ambrose K.D., Anderson F., Andrew R.W., Ashwell R.I.S., Aubin K., Babbage A.K., Bagguley C.L., Bailey J., Beasley H., Bethel G., Bird C.P., Bray-Allen S., Brown J.Y., Brown A.J., Buckley D., Burton J., Bye J., Carder C., Chapman J.C., Clark S.Y., Clarke G., Clee C., Cobley V., Collier R.E., Corby N., Coville G.J., Davies J., Deadman R., Dunn M., Earthrowl M., Ellington A.G., Errington H., Frankish A., Frankland J., French L., Garner P., Garnett J., Gay L., Ghorl M.R.J., Gibson R., Gilby L.M., Gillett W., Glithero R.J., Grafham D.V., Griffiths C., Griffiths-Jones S., Grocock R., Hammond S., Harrison E.S.I., Hart E., Haugen E., Heath P.D., Holmes S., Holt K., Howden P.J., Hunt A.R., Hunt S.E., Hunter G., Isherwood J., James R., Johnson C., Johnson D., Joy A., Kay M., Kershaw J.K., Kibukawa M., Kimberley A.M., King A., Knights A.J., Lad H., Laird G., Lawlor S., Leongamornlert D.A., Lloyd D.M., Loveland J., Lovell J., Lush M.J., Lyne R., Martin S., Mashreghi-Mohammadi M., Matthews L., Matthews N.S.W., McLaren S., Milne S., Mistry S., Moore M.J.F., Nickerson T., O'Dell C.N., Oliver K., Palmeiri A., Palmer S.A., Parker A., Patel D., Pearce A.V., Peck A.I., Pelan S., Phelps K., Phillimore B.J., Plumb R., Rajan J., Raymond C., Rouse G., Saenphimmachak C., Sehra H.K., Sheridan E., Shownkeen R., Sims S., Skuce C.D., Smith M., Steward C., Subramanian S., Sycamore N., Tracey A., Tromans A., Van Helmond Z., Wall M., Wallis J.M., White S., Whitehead S.L., Wilkinson J.E., Willey D.L., Williams H., Wilming L., Wray P.W., Wu Z., Coulson A., Vaudin M., Sulston J.E., Durbin R.M., Hubbard T., Wooster R., Dunham I., Carter N.P., McVean G., Ross M.T., Harrow J., Olson M.V., Beck S., Rogers J., Bentley D.R.Nature 441:315-321(2006) ST3GAL3 mutations impair the development of higher cognitive functions.Hu H., Eggers K., Chen W., Garshasbi M., Motazacker M.M., Wrogemann K., Kahrizi K., Tzschach A., Hosseini M., Bahman I., Hucho T., Muhlenhoff M., Gerardy-Schahn R., Najmabadi H., Ropers H.H., Kuss A.W.Am. J. Hum. Genet. 89:407-414(2011) West syndrome caused by ST3Gal-III deficiency.Edvardson S., Baumann A.M., Muehlenhoff M., Stephan O., Kuss A.W., Shaag A., He L., Zenvirt S., Tanzi R., Gerardy-Schahn R., Elpeleg O.Epilepsia 54:E24-E27(2013)

NCBI AND UNIPROT INFORMATION

NCBI GI #	394953627
NCBI GeneID	6487
NCBI Accession #	NP_001257388.1
NCBI GenBank Nucleotide #	NM_001270459.1
UniProt Accession #	Q11203; Q5T4W9; Q5T4X0; Q5T4X7; Q5T4X8; Q5T4X9; Q5T4Y0; Q5T4Y2; Q5T4Y3; Q5T4Y4; A9Z1W2; D3DPX8
Molecular Weight	54.9 kDa
NCBI Official Full Name	CMP-N-acetylneuraminate-beta-1,4-galactoside alpha-2,3-sialyltransferase isoform k
UniProt Protein Name	CMP-N-acetylneuraminate-beta-1,4-galactoside alpha-2,3-sialyltransferase
UniProt Gene Name	ST3GAL3
UniProt Synonym Gene Names	SIAT6; Alpha 2,3-ST 3; ST3GalIII
UniProt Entry Name	SIAT6_HUMAN

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.