Product Data Sheet

ST3GAL3 Protein, Human (His-SUMO)

Cat. No.: HY-P71529

3 sialyltransferase; 3(4) GlcNAc alpha-2; 3-sialyltransferase 3; 3-sialyltransferase; 3-ST 3; 4-Synonyms:

> galactoside alpha-2; 4GlcNAc alpha 2 3 sialyltransferase; Alpha 2 3 sialyltransferase II; Alpha 2 3 sialyltransferase III; Alpha 2 3 ST 3; Alpha 2; Beta galactoside alpha 3 sialyltransferase 3; Betagalactoside alpha-2; CMP N acetylneuraminate beta 1 4 galactoside alpha 2 3 sialyltransferase; CMP-N-acetylneuraminate-beta-1; EC 2.4.99.6; Gal beta 1 3; Gal beta 1 3(4) GlcNAc alpha 2 3

sialyltransferase; Gal beta 1 3(4)GlcNAc alpha 2 3 sialyltransferase; Gal beta-1; N acetyllactosaminide alpha 2 3 sialyltransferase; N-acetyllactosaminide alpha-2; OTTHUMP00000008820; OTTHUMP00000008821; OTTHUMP0000008822;

OTTHUMP00000008823; Sialyltransferase 6 (N acetyllacosaminide alpha 2 3 sialyltransferase); Sialyltransferase 6; SIAT6; SIAT6_HUMAN; ST3 beta galactoside alpha 2 3 sialyltransferase 3; ST3 beta galactoside alpha 2,3 sialyltransferase 3; ST3Gal III; St3gal3; ST3GALII; ST3GalIII; ST3N

Species: Human Source: E. coli

Accession: Q11203 (29K-375I)

Gene ID: 6487

Molecular Weight: Approximately 54.9 kDa

PROPERTIES

ERTIES	
uence	
KLHLLQWEED	
KLPAELATKY	
FLDDSFRKWA	
TPALDSLRCR	RCIIVGNGG
SAPVKGFEKD	VGSKTTLRI
AGFKWQDFKW	LKYIVYKER
IRILNPYFIQ	EAAFTLIGL
MALHGCDEVA	VAGFGYDMS
THNIQREKEF	LRKLVKARV
cal Activity The enzyme activity of this re	ecombinant protein
rance Lyophilized powder	
lation Lyophilized after extensive o	dialysis against soluti
×in Level <1 EU/μg, determined by LAI	L method.
It is not recommended to recommended	onstitute to a conce
e & Stability Stored at -20°C for 2 years. Aft recommended to freeze alique	

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Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

ST3GAL3, or sialyltransferase 3, is an enzyme that catalyzes the formation of terminal carbohydrate sequences on glycoproteins and glycolipids. Specifically, it is responsible for adding sialic acid to the Gal-beta-1,3-GlcNAc, Gal-beta-1,3-GlcNAc, and Gal-beta-1,3-GalNAc structures, resulting in the formation of NeuAc-alpha-2,3-Gal-beta-1,4-GlcNAc, NeuAc-alpha-2,3-Gal-beta-1,3-GlcNAc, and NeuAc-alpha-2,3-Gal-beta-1,3-GalNAc sequences. These sialylation events play a crucial role in modulating the structure and function of glycoproteins and glycolipids, impacting various cellular processes. ST3GAL3 exhibits varying degrees of activity towards different substrates, with the highest activity observed towards Gal-beta-1,3-GlcNAc and the lowest towards Gal-beta-1,3-GalNAc. It has to succinctly outline ST3GAL3's role in catalyzing the addition of sialic acid to specific carbohydrate structures, highlighting its contribution to the diversity of terminal glycan sequences in biological molecules.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA