B3GAT1 Protein, Human (HEK293, His)

Cat. No.:	HY-P70114
Synonyms:	rHuGalactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1/B3GAT1, His; B3GAT1; Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1; beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P); CD57; GlcAT-P; HNK1; NK1; NK-1
Species:	Human
Source:	HEK293
Accession:	Q9P2W7 (H25-I334)
Gene ID:	27087
Molecular Weight:	50-60 kDa

PROPERTIES

AA Sequence	HQSTLAPLLA VHKDEGSDPR RETPPGADPR EYCTSDRDIV EVVRTEYVYT RPPPWSDTLP TIHVVTPTYS RPVQKAELTR MANTLLHVPN LHWLVVEDAP RRTPLTARLL RDTGLNYTHL HVETPRNYKL RGDARDPRIP RGTMQRNLAL RWLRETFPRN SSQPGVVYFA DDDNTYSLEL FEEMRSTRRV SVWPVAFVGG LRYEAPRVNG AGKVVGWKTV FDPHRPFAID MAGFAVNLRL ILQRSQAYFK LRGVKGGYQE SSLLRELVTL NDLEPKAANC TKILVWHTRT EKPVLVNEGK KGFTDPSVEI
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The B3GAT1 Protein plays a key role in the biosynthesis of the L2/HNK-1 carbohydrate epitope on glycoproteins and is implicated in glycosaminoglycan biosynthesis. The substrates involved in its catalytic activity encompass asialo-

orosomucoid (ASOR), asialo-fetuin, and asialo-neural cell adhesion molecule. Intriguingly, the protein's enzymatic function is contingent upon the presence of sphingomyelin, with stearoyl-sphingomyelin proving to be the most effective, followed by palmitoyl-sphingomyelin and lignoceroyl-sphingomyelin. Notably, the protein demonstrates activity exclusively with sphingomyelin harboring a saturated fatty acid, showing no reactivity with unsaturated fatty acids, irrespective of acyl group length.

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