Active Recombinant Human GCNT2 Protein (AA 26-400), N-6×His/GFP tagged

Cat. No. GCNT2-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCNT2 Protein (AA 26-400) with N-6×His/GFP tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	AA 26-400
Description	This gene encodes the enzyme responsible for formation of the blood group I antigen. The i and I antigens are distinguished by linear and branched poly-N-acetyllactosaminoglycans, respectively. The encoded protein is the I-branching enzyme, a beta-1,6-N-acetylglucosaminyltransferase responsible for the conversion of fetal i antigen to adult I antigen in erythrocytes during embryonic development. Mutations in this gene have been associated with adult i blood group phenotype. Alternatively spliced transcript variants encoding different isoforms have been described.
Bio-activity	≥ 0.02 μmol/min/mg
Molecular Mass	~75 kDa
AA Sequence	NFGGDPSFQRLNISDPLRLTQVCTSFINGKTRFLWKNKLMIHEKSSCKEYLTQSHYITAPLSKEEADFPLAYIMVIHHHFDTFARLFRAIYMPQNIYCVHVDEKATTEFKDAVEQLLSCFPNAFLASKMEPVVYGGISRLQADLNCIRDLSAFEVSWKYVINTCGQDFPLKTNK

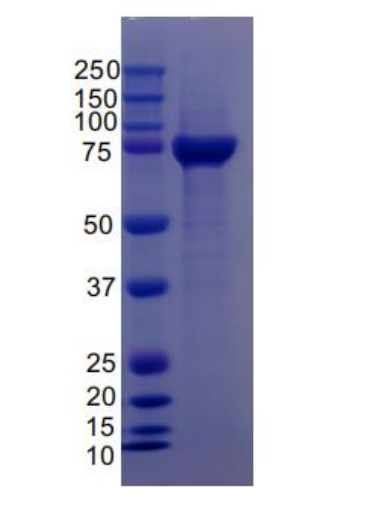
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	EIVQYLKGFKGKNITPGVLPPAHAIGRTKYVHQEHLGKELSYVIRTTALKPPPPHNLTI YFGSAYVALSREFANFVLHDPRAVDLLQWSKDTFSPDEHFWVTLNRIPGVPGSMPN ASWTGNLRAIKWSDMEDRHGGCHGHYVHGICIYGNGDLKWLVNSPSLFANKFELN TYPLTVECLELRHRERTLNQSETAIQPSWYF
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Coomassie Blue stain.
Stability	6 months if stored at -80 centigrade. Avoid repeated freeze thaws.
Concentration	1 mg/mL
Storage Buffer	Supplied as a 0.2 μm filtered solution in 20mM HEPES pH 7.0 and 100mM NaCl buffer, with 10% Glycerol.
Preservative	0.05 % NaN3
Shipping	This product is shipped as 0.2μm filtered product on dry ice.

GENE INFORMATION

Gene Name	GCNT2 glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group) [Homo sapiens (human)]
Official Symbol	GCNT2
Synonyms	GCNT2; glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I blood group); cataract, congenital , CCAT, GCNT5, glucosaminyl (N acetyl) transferase 2, I branching enzyme , glucosaminyl (N acetyl) transferase 2, I branching enzyme (Ii blood group) , glucosaminyl (N acetyl) transferase 5 , II, NACGT1; N-acetyllactosaminide beta-1,6-N-acetylglucosaminyl-transferase; bA360O19.2;

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

	bA421M1.1; IGNT; Ii blood group; NAGCT1; ULG3; unassigned linkage group 3; I beta-1,6-N-acetylglucosaminyltransferase; beta-1,6-N-acetylglucosaminyltransferase 2; II; CCAT; GCNT5; GCNT2C; NACGT1; MGC163396;
Gene ID	2651
mRNA Refseq	NM_001491
Protein Refseq	NP_001482
MIM	600429
UniProt ID	Q06430
SDS-PAGE	

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