

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	NFGGDPSFQRLNISDPLRLTQVCTSFINGKTRFLWKNKLMIEKSSCKEYLTQSHYIT APLSKEEADFPPLAYIMVIHHHFDTFARLFRAIYMPQNIYCVHVDEKATTEFKDAVEQLL SCFPNAFLASKMEPVVYGGISRLQADLNCIRDLSAFEVSWKYVINTCGQDFPLKTNK

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EIVQYLKGFKGKNITPGVLPPAHAIGRTKYVHQEHLGKELSYVIRTTALKPPPPHNLT
YFGSAYVALSREFANFVLHDPRAVDLLQWSKDTFSPDEHFWVTNLNRI
PGVPGSMPN
ASWTGNLRAIKWSDMEDRHGGCHGHYVHGICIYGNGLKWLNVNSPSLFANKFELN
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 (li blood group) , glucosaminyl (N acetyl) transferase 5 , II, NACGT1; N-acetylglucosaminide beta-1,6-N-acetylglucosaminyl-transferase; bA360O19.2;

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bA421M1.1; IGNT; li 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

