

Glucosaminyl (N-acetyl) Transferase 2 (GCNT2)

Product Information

Cat#	DIA-726
Descriptions	Glucosaminyl (N-acetyl) Transferase 2 (GCNT2) functions as the I-branching enzyme that introduces β 1,6-linked GlcNAc branches into poly-N-acetyllactosamine chains, converts fetal i antigen to adult I antigen, and regulates erythrocyte surface glycan expression during development.
Applications	Glucosaminyl (N-acetyl) Transferase 2 (GCNT2) is used for I blood group antigen detection kits and erythrocyte glycan assay reagent development.
CAS No.	24-1-1508
Enzyme Commission Number	EC 2.4.1.150
Enzyme Source	CHO-derived
Reaction	a beta-D-Gal- (1->4)-beta-D-GlcNAc- (1->3)-beta-D-Gal- (1->4)-beta-D-GlcNAc derivative + UDP-N-acetyl-alpha-D-glucosamine = a beta-D-Gal- (1->4)-beta-D-GlcNAc- (1->3)-[beta-D-GlcNAc- (1->6)]-beta-D-Gal- (1->4)-N-acetyl-beta-D-glucosaminyl derivative + H ⁺ + UDP
Activity Definition	Measured by its ability to transfer GlcNAc from UDP-GlcNAc to Cy5-labeled Extended G2.