

Recombinant Human GALT, His-tagged

Cat. No. GALT-7122H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GALT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-379aa
Description	GALT catalyzes the second step of the Leloir pathway of galactose metabolism, namely the conversion of UDP-glucose + galactose-1-phosphate to glucose-1-phosphate + UDP-galactose. The absence of this enzyme results in classic galactosemia in humans and can be fatal in the newborn period if lactose is not removed from the diet. The pathophysiology of galactosemia has not been clearly defined. Two transcript variants encoding different isoforms have been found for this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl, 10% glycerol.
Molecular Mass	45.9 kDa (403aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSRSGT DPQQRQQASE ADAAAATFRA NDHQHIRYNP LQDEWVLVSA HRMKRPWQQG VEPQLLKTVP RHDPLNPLCP GAIRANGEVN PQYDSTFLFD NDFPALQPDA PSPGPSDHPL FQAKSARGVC KVMCFHPWSD VTLPLMSVPE IRAVVDAS VTEELGAQYP WVQIFENKGA

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MMGCSNPPH CQVWASSFLP DIAQREERSQ QAYKSQHGEF LLMEYSRQEL
 LRKERLVLTS EHVLVLPFW ATWPYQTL L PRRHVRRLPE LTPAERDDLA
 SIMKKLLTKY DNLFETSFPY SMGWHGAPTG SEAGANWNHW QLHAHYYPPL
 LRSATVRKFM VGYEMLAQAQ RDLTPEQAAE RLRALPEVHY HLGQKDRETA TIA

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml

GENE INFORMATION

Gene Name [GALT galactose-1-phosphate uridylyltransferase \[Homo sapiens \]](#)

Official Symbol GALT

Synonyms GALT; galactose-1-phosphate uridylyltransferase; gal-1-P uridylyltransferase; galactose-1-phosphate uridyl transferase; UDP-glucose--hexose-1-phosphate uridylyltransferase;

Gene ID [2592](#)

mRNA Refseq [NM_000155](#)

Protein Refseq [NP_000146](#)

MIM [606999](#)

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UniProt ID	P07902
Chromosome Location	9p13
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Galactose catabolism, organism-specific biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	UDP-glucose:hexose-1-phosphate uridylyltransferase activity; metal ion binding; nucleotidyltransferase activity; transferase activity; zinc ion binding;

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