

Recombinant Human GALT, His-tagged

Cat. No. GALT-27306TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1-313 of Human GALT with N terminal His tag; 313 amino acids, 36kDa.
Species	Human
Source	E.coli
ProteinLength	1-313 a.a.
Description	Galactose-1-phosphate uridyl transferase (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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 141 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

MSRSGTDPQQRQQASEADAAAATFRANDHQHIRYNPLQDE WVLVSAHRMKRPW
 QGQVEPQLLKTVP RHDPLNPLCPGA IRANGEVNPQYDSTFLFDNDFPALQPDAPSP
 GPSDHPLFQAKSARGVCKVMCFHPWSDVTLPLMSVPEIRAVVDAWAS VTEELGAQ
 YPWVQIFENKGAMMGCSNPHPHCQVWASSF LPDIAQREERSQQAYKSQHGEPLL
 MEYSRQELLRKERLVL TSEHWLVLPFWATWPYQTL LLPRRHVRRLPELTPAER D
 DLASIMKKLLTKYDNLFETSPYSMGWGAPTGSEAG ANW

Sequence Similarities

Belongs to the galactose-1-phosphate uridylyltransferase type 1 family.

GENE INFORMATION

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

Official Symbol [GALT](#)

Synonyms GALT; galactose-1-phosphate uridylyltransferase;

Gene ID [2592](#)

mRNA Refseq [NM_000155](#)

Protein Refseq [NP_000146](#)

MIM [606999](#)

Uniprot ID [P07902](#)

Chromosome Location 9p13

Pathway Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino

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sugar and nucleotide sugar metabolism, conserved biosystem; Galactose catabolism, organism-specific biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem;

Function

UDP-glucose:hexose-1-phosphate uridylyltransferase activity; metal ion binding; nucleotidyltransferase activity; transferase activity; zinc ion binding;

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