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.

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

Sequences of amino acids	MSRSGTDPQQRQQASEADAAAATFRANDHQHIRYNPLQDE WVLVSAHRMKRPW QGQVEPQLLKTVPRHDPLNPLCPGA IRANGEVNPQYDSTFLFDNDFPALQPDAPSP GPSDHPLFQAKSARGVCKVMCFHPWSDVTLPLMSVPEIRAVVDAWAS VTEELGAQ YPWVQIFENKGAMMGCSNPHPHCQVWASSF LPDIAQREERSQQAYKSQHGEPLL MEYSRQELLRKERLVL TSEHWLVLVPFWATWPYQTLLLPRRHVRRLPELTPAER D DLASIMKKLLTKYDNLFETSFPYSMGWHGAPTGSEAG 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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