

Recombinant Human GALT Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GALT-2582H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GALT MS Standard C13 and N15-labeled recombinant protein (NP_000146) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Two transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	43.4 kDa
AA Sequence	MSRSGTDPQQRQQASEADAAAATFRANDHQHIRYNPLQDEWVLVSAHRMKRPWQ GQVEPQLLKTVPRHDPLNPLCPGAIRANGEVNPQYDSTFLFDNDFPALQPDAPSPG PSDHPLFQAKSARGVCKVMCFHPWSDVTLPLMSVPEIRAVVDASVTEELGAQY PWVQIFENKGAMMGCSNPHPHCQVWASSFLPDIAQREERSQQAYKSQHGEPLLM EYSRQELLRKERLVLVTSEHWLVLPFWATWPYQTLLLPRRHVRRRLPELTPAERDDL ASIMKKLLTKYDNLFETSPYSMGWHGAPTGSEAGANWDHWQLHAHYYPPLLRSA

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TVRKFMVGYEMLAQARDLTPEQAAERLRALPEVHYHLGQKDRETATIATRTRPLE
QKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GALT galactose-1-phosphate uridylyltransferase [Homo sapiens (human)]
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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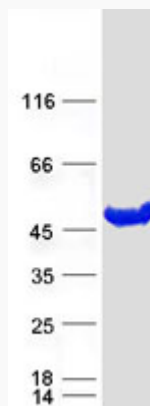
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UniProt ID

P07902

SDS-PAGE

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