

Product datasheet for PH302206

GALT (NM_000155) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GALT MS Standard C13 and N15-labeled recombinant protein (NP_000146)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202206
Predicted MW:	43.4 kDa
Protein Sequence:	>RC202206 protein sequence Red=Cloning site Green=Tags(s)
	MSRSGTDPQQRQQASEADAAAATFRANDHQHIRYNPLQDEWVLSAHRMKRPWQGQVEPQLLKTVPRHDP LNPLCPGAIRANGEVNPQYDSTFLFDNDFPALQPDAPSPGPSDHPLFQAKSARGVCKVMCFHPWSDVTLPLMSVPEIRAVVDAWASVTEELGAQYPWVQIFENKGAMMGCSNPHPHCQVWASSFLPDIAQREERSQQAYK SQHGPELLMEYSRQELLRKERLVLTSEHWLVLVPFWATWPYQTLPLRRHVRRPELTPAERDDLASIMK KLLTKYDNLFFETSFYPSMGWHGAPTGSEAGANWDHWQLHAHYYPPLLRSATVRKFMVGYEMLAQQRDLT PEQAAERLRALPEVHYHLGQKDRETATIA
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000146</u>
RefSeq Size:	1407
RefSeq ORF:	1137
Locus ID:	2592
UniProt ID:	<u>P07902</u> , <u>A0A0S2Z3Y7</u> , <u>B2RAT6</u>



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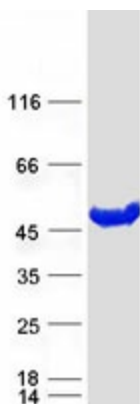
Cytogenetics: 9p13.3

Summary: 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. [provided by RefSeq, Apr 2012]

Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified GALT protein (Cat# [TP302206]). The protein was produced from HEK293T cells transfected with GALT cDNA clone (Cat# [RC202206]) using MegaTran 2.0 (Cat# [TT210002]).