

Recombinant Mouse Galt Protein, Myc/DDK-tagged

Cat. No. Galt-3146M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length galactose-1-phosphate uridyl transferase (Galt), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	The protein encoded by this gene is the second enzyme in the Leloir pathway, the metabolic pathway for D-galactose catabolism. It catalyzes the conversion of galactose-1-phosphate and uridine diphosphate-glucose to glucose-1-phosphate and uridine diphosphate galactose. Deficiency of this enzyme causes the genetic metabolic disorder galactosemia. Mice lacking this protein accumulate high levels of galactose and galactose-1 phosphate but are viable and fertile. This protein is negatively regulated through signaling by the polypeptide hormone prolactin, specifically via the short isoform of the prolactin receptor and the transcription factor Forkhead box O3. Alternative splicing results in multiple transcript variants.
Molecular Mass	41.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Galt galactose-1-phosphate uridyl transferase [Mus musculus (house mouse)]
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Official Symbol	Galt
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Synonyms	Galt; galactose-1-phosphate uridyl transferase; AW553376; galactose-1-phosphate uridylyltransferase; UDP-glucose--hexose-1-phosphate uridylyltransferase; gal-1-P uridylyltransferase; EC 2.7.7.12
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Gene ID	14430
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mRNA Refseq	NM_016658
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Protein Refseq	NP_057867
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UniProt ID	Q03249
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