

Recombinant Mouse Galm Protein, Myc/DDK-tagged

Cat. No. Galm-3139M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length galactose mutarotase (Galm), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mutarotase that catalyzes the interconversion of beta-D-galactose and alpha-D-galactose during galactose metabolism. Beta-D-galactose is metabolized in the liver into glucose 1-phosphate, the primary metabolic fuel, by the action of four enzymes that constitute the Leloir pathway: GALM, GALK1 (galactokinase), GALT (galactose-1-phosphate uridylyltransferase) and GALE (UDP-galactose-4'-epimerase). Involved in the maintenance of the equilibrium between the beta- and alpha-anomers of galactose, therefore ensuring a sufficient supply of the alpha-anomer for GALK1. Also active on D-glucose although shows a preference for galactose over glucose.
Molecular Mass	37.8 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.

 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

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	Galm galactose mutarotase [Mus musculus (house mouse)]
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Official Symbol	Galm
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Synonyms	GALM; galactose mutarotase; aldose 1-epimerase; AU015645; AU020959; A530057M15Rik
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Gene ID	319625
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mRNA Refseq	NM_176963
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Protein Refseq	NP_795937
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UniProt ID	Q8K157
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