

**GALM Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9345a****Specification**

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**GALM Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q96C23](#)**GALM Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 130589**Other Names**

Aldose 1-epimerase, Galactose mutarotase, GALM

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GALM Antibody (N-term) Blocking Peptide - Protein Information****Name** GALM ([HGNC:24063](#))**Function**

Mutarotase that catalyzes the interconversion of beta-D- galactose and alpha-D-galactose during galactose metabolism (PubMed:<a href="http://www.uniprot.org/citations/12753898" target="\_blank">12753898</a>). 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) (PubMed:<a href="http://www.uniprot.org/citations/30451973" target="\_blank">30451973</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/12753898" target="\_blank">12753898</a>). Also active on D-glucose although shows a preference for galactose over glucose (PubMed:<a href="http://www.uniprot.org/citations/12753898" target="\_blank">12753898</a>).

**Cellular Location**

Cytoplasm.

## **GALM Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **GALM Antibody (N-term) Blocking Peptide - Images**

## **GALM Antibody (N-term) Blocking Peptide - Background**

GALM encodes an enzyme that catalyzes the epimerization of hexose sugars such as glucose and galactose. The encoded protein is expressed in the cytoplasm and has a preference for galactose. The encoded protein may be required for normal galactose metabolism by maintaining the equilibrium of alpha and beta anomers of galactose.

## **GALM Antibody (N-term) Blocking Peptide - References**

Pai,T. Biochemistry 46 (51), 15198-15207 (2007)Thoden,J.B. J. Biol. Chem. 279 (22), 23431-23437 (2004)Holden,H.M. J. Biol. Chem. 278 (45), 43885-43888 (2003)