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

Specification

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:12753898). 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:30451973). 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:12753898). Also active on D-glucose although shows a preference for galactose over glucose (PubMed:12753898).

Cellular Location
Cytoplasm.

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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)