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Recombinant human GALM protein

Catalog Number: ATGP0620

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-342aa

UniProt No.
Q96C23

NCBI Accession No.
NP_620156

Alternative Names
Galctose mutarotase, Aldose 1-epimerase, BLOCK25, IBD1, Galctose mutarotase, Aldose1-epimerase, BLOCK 25, BLOCK-25

PRODUCT SPECIFICATION

Molecular Weight
39.9 kDa (362aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
GALM (Galactose mutarotase), also known as Aldose 1-epimerase, is a key enzyme of carbohydrate metabolism catalysing the conversion of beta-D-galactose to alpha-D-galactose. This protein may be essential for normal galactose metabolism by maintaining the equilibrium of alpha and beta anomers of galactose. Also it is required for the production of complex oligosaccharides. Recombinant human GALM, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

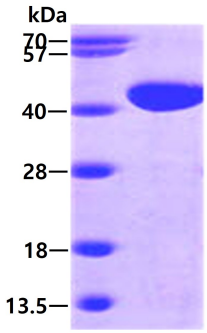
<MGSSHHHHHH SSGLVPRGSH> MASVTRAVFG ELPSGGGTVE KFQLQSDLLR VDIISWGCTI TALEVKDRQG RASDVVLGFA ELEGYLQKQP YFGAVIGRVA NRIAKGTFKV DGKEYHLAIN KEPNSLHGGV RGFDKVLWTP RVLSNGVQFS RISPDGEEGY PGELKVWVTY TLDGGELIVN YRAQASQATP VNLTNHSYFN LAGQASPNIN DHEVTIEADT YLPVDETLIP TGEVAPVQGT AFDLRKPVEL GKHLQDFHLN GFDHNFCLKG SKEKHFCARV HHAASGRVLE VYTTQPGVQF YTGNFLDGTL KGKNGAVYPK HSGFCLETQN WPDAVNQPRF PPVLLRPGEE YDHTTWFKFS VA

General References

Ross AC., et al. (2007) Biochemistry. 46(51):15198-207
Reece RJ., et al (2003) FEBS Lett. 543(1-3):21-4.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.