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Recombinant human UDP-galactose-4-epimerase/GALE protein

Catalog Number: ATGP0614

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-348aa

UniProt No.

014376

NCBI Accession No.

NP 000394.2

Alternative Names

UDP-glucose 4-epimerase, Galactowaldenase, UDP-N-acetylgalactosamine 4-epimerase, UDP-GalNAc 4-epimerase, UDP-N-acetylglucosamine 4-epimerase, UDP-GlcNAc 4-epimerase, UDP-galactose 4-epimerase, short chain dehydrogenase/reductase family 1E, member 1, SDR1E1

PRODUCT SPECIFICATION

Molecular Weight

40.4 kDa (368aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 5mM DTT, 0.1M NaCl, and 1mM EDTA

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

GALE, also known as uDP-glucose 4-epimeraes, is a protein that functions as the third enzyme in the Leloir pathway of galactose metabolism. It is a homodimeric epimerase found in bacterial, plant, and mammalian cells. This enzyme promotes the reverse chemical reaction, the conversion of uDP-glucose to uDP-galactose. uDP-galactose is used to build galactose-containing proteins and fats, which play critical roles in chemical signaling,



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building cellular structures, transporting molecules, and producing energy. Recombinant human GALE protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

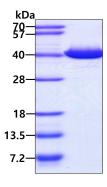
<MGSSHHHHHH SSGLVPRGSH> MAEKVLVTGG AGYIGSHTVL ELLEAGYLPV VIDNFHNAFR GGGSLPESLR RVQELTGRSV EFEEMDILDQ GALQRLFKKY SFMAVIHFAG LKAVGESVQK PLDYYRVNLT GTIQLLEIMK AHGVKNLVFS SSATVYGNPQ YLPLDEAHPT GGCTNPYGKS KFFIEEMIRD LCQADKTWNA VLLRYFNPTG AHASGCIGED PQGIPNNLMP YVSQVAIGRR EALNVFGNDY DTEDGTGVRD YIHVVDLAKG HIAALRKLKE QCGCRIYNLG TGTGYSVLQM VQAMEKASGK KIPYKVVARR EGDVAACYAN PSLAQEELGW TAALGLDRMC EDLWRWQKQN PSGFGTQA

General References

Holden HM., et al. (2003) J Biol Chem. 278(45):43885-8. Timson DJ., et al. (2005) FEBS J. 272(23):6170-7.

DATA

SDS-PAGE



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

