Recombinant Human GALE Protein (His Tag)

Catalog Number: PKSH033193



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms UDP-Glucose 4-Epimerase;Galactowaldenase;UDP-Galactose 4-Epimerase;GALE

Species Human
Expression Host E.coli

Sequence Met 1-Ala348
Accession Q14376
Calculated Molecular Weight 40.4 kDa
Observed molecular weight 35 kDa

Properties

Tag

Purity > 95 % as determined by reducing SDS-PAGE.

N-His

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Storage Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping This product is provided as liquid. It is shipped at frozen temperature with blue

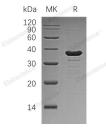
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

Formulation Supplied as a 0.2 μm filtered solution of 50mM Tris-HCl, 150mM NaCl, 2mM

DTT, 1mM EDTA, pH 8.0.

Reconstitution Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

The enzyme UDP-Glucose 4-Epimerase (GALE) is a homodimeric epimerase found in bacterial, plant and mammalian cells. UDP-Glucose 4-Epimerase performs the final step in the Leloir pathway of Galactose metabolism, it catalyzes two distinct but analogous reactions: the epimerization of UDP-Gglucose to UDP-Galactose and the epimerization of UDP-N-Acetylglucosamine to UDP-N-Acetylgalactosamine. The bifunctional nature of the enzyme has the important metabolic consequence that mutant cells (or individuals) are dependent not only on exogenous galactose, but also on exogenous N-acetylgalactosamine as a necessary precursor for the synthesis of glycoproteins and glycolipids.

For Research Use Only

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