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# **Recombinant Human GALE Protein (His Tag)**

Catalog No. 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

SequenceMet 1-Ala348AccessionQ14376

Calculated Molecular Weight 40.4 kDa
Observed molecular weight 35 kDa
Tag N-His

**Bioactivity** Not validated for activity

## **Properties**

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

**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

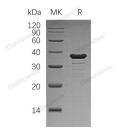
ice/gel packs. Upon receipt, store it immediately at < - 20°C.

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-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-

#### For Research Use Only

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acetylgalactosamine as a necessary precursor for the synthesis of glycoproteins and glycolipids.

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