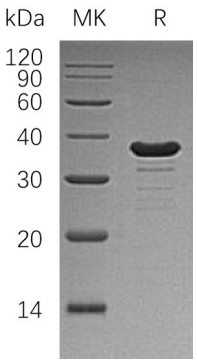
Product Name: Recombinant Human GALE (N-6His)
Catalog #: PEH1785

Summary

Name	UDP-glucose 4-epimerase/GALE
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human UDP-Glucose 4-Epimerase is produced by our E.coli expression system and the target gene encoding Met1-Ala348 is expressed with a 6His tag at the N-terminus.
Accession #	Q14376
Host	E.coli
Species	Human
Predicted Molecular Mass	40.44 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 50mM Tris-HCl, 150mM NaCl, 2mM DTT, 1mM EDTA, pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image



Background

Alternative Names	UDP-Glucose 4-Epimerase; Galactowaldenase; UDP-Galactose 4-Epimerase; GALE
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.

Note

For Research Use Only , Not for Diagnostic Use.