Datasheet for ABIN7319157

GALE Protein (His tag)

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Overview

Quantity:	50 µg
Target:	GALE
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GALE protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human GALE Protein (His Tag)
Sequence:	Met 1-Ala348
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	GALE
Alternative Name:	GALE (GALE Products)
Background:	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:

Target Details

	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. Synonym: UDP-Glucose 4-Epimerase, Galactowaldenase, UDP-Galactose 4-Epimerase, GALE
Molecular Weight:	40.4 kDa
UniProt:	Q14376
Pathways:	Response to Water Deprivation, Cellular Glucan Metabolic Process

Application Details

Restrictions:	For Research Use only

Handling

Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM TrisHCl, 150 mM NaCl, 2 mM DTT, 1 mM EDTA, pH 8.0.
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.