

Product datasheet for TP720236M

GALE (NM_000403) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins Description: Recombinant protein of human UDP-galactose-4-epimerase (GALE), transcript variant 1 Species: Human **Expression Host:** E. coli **Expression cDNA Clone** Met1-Ala348 or AA Sequence: N-His Tag: 40.4 kDa **Predicted MW: Concentration:** lot specific **Purity:** >95% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl Endotoxin: < 0.1 EU per µg protein as determined by LAL test Store at -80°C. Storage: Stable for at least 3 months from date of receipt under proper storage and handling Stability: conditions. **RefSeq:** NP 000394 Locus ID: 2582 **UniProt ID:** Q14376, A0A384NL38 Cytogenetics: 1p36.11 SDR1E1 Synonyms:



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Summary: This gene encodes UDP-galactose-4-epimerase which catalyzes two distinct but analogous reactions: the epimerization of UDP-glucose to UDP-galactose, and the epimerization of 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. Mutations in this gene result in epimerase-deficiency galactosemia, also referred to as galactosemia type 3, a disease characterized by liver damage, early-onset cataracts, deafness and cognitive disability, with symptoms ranging from mild ('peripheral' form) to severe ('generalized' form). Multiple alternatively spliced transcripts encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways

Product images:



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