

Recombinant Mouse Gale Protein, Myc/DDK-tagged

Cat. No. Gale-3136M Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Purified recombinant protein of mouse full-length galactose-4-epimerase, UDP (Gale), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| Species | Mouse |
| Source | HEK293 |
| Description | Catalyzes two distinct but analogous reactions: the reversible epimerization of UDP-glucose to UDP-galactose and the reversible epimerization of UDP-N-acetylglucosamine to UDP-N-acetylgalactosamine. The reaction with UDP-Gal plays a critical role in the Leloir pathway of galactose catabolism in which galactose is converted to the glycolytic intermediate glucose 6-phosphate. It contributes to the catabolism of dietary galactose and enables the endogenous biosynthesis of both UDP-Gal and UDP-GalNAc when exogenous sources are limited. Both UDP-sugar interconversions are important in the synthesis of glycoproteins and glycolipids. |
| Molecular Mass | 38.2 kDa |
| Purity | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Stability | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| Storage | Store at -80 centigrade after receiving vials. |

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Gale galactose-4-epimerase, UDP [Mus musculus (house mouse)]

Official Symbol Gale

Synonyms Gale; galactose-4-epimerase, UDP; AI323962; 2310002A12Rik; UDP-glucose 4-epimerase; UDP-GalNAc 4-epimerase; UDP-GlcNAc 4-epimerase; UDP-N-acetylglucosamine 4-epimerase; UDP-galactosamine 4-epimerase; UDP-galactose 4-epimerase; galactowaldenase; EC 5.1.3.2; EC 5.1.3.7

Gene ID 74246

mRNA Refseq NM_178389

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