

Product datasheet for TP505246

Gale (NM_178389) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse galactose-4-epimerase, UDP (Gale), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205246 protein sequence Red=Cloning site Green=Tags(s)

MEKVLVTGGAGYIGSHTVLELLEAGYSPVVIDNFHNAIRGEDSMPELRRVQELTGRSVEFEEMDILDQA
ALQHFLFKKHSFKAVIHFAGLKAVGESVQKPLDYRVNLTGTIQLLEIMRAHGKLVFSSSATVYGNPQY
LPLDEAHPTGGCTNPYGKSKFFIEEMIRDLCRADTAWNALLRYFNPIGAHASGRIGEDPQGIPNNLMPY
VSQVAIGRREALNVFGDDYATEDGTGVRDYIHVVDLAKGHIAALKKLEQCGRITYNLGTGTGYSVLQMV
QAMEKASGKKIPYKVVARRREGDVAACYANPSLAHEELGWTAALGLDRMCEDLWRWQKQNPSTGFGAQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	38.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	74246
UniProt ID:	Q8R059
RefSeq Size:	1537



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Cytogenetics: 4 D3

RefSeq ORF: 1044

Synonyms: 2310002A12Rik; AI323962

Summary: 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. [UniProtKB/Swiss-Prot Function]