
Product Data Sheet

Product Name: GALE Human
 Cat. No.: GP21653
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UDP-glucose 4-epimerase; EC=5.1.3.2; Galactowaldenase; UDP-galactose 4 epimerase; GALE; SDR1E1; FLJ95174; FLJ97302.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAEKVLVTGG AGYIGSHTVL ELLEAGYLPV VIDNFHNAFR GGGSLPESLR RVQELTGRSV EFEEMDILDQ GALQRLFKEY SFMAVIHFAG LKAVGESVQK PLDYRVNLT GTIQLLEIMK AHGVKNLVFS SSATVYGNPQ YLPLDEAHPT GGCTNPYGKS KFFIEEMIRD LCQADKTWNA VLLRYFNPTG AHASGCIGED PQGIPNNLMP YVSQVAIGRR EALNVFGNDY DTEDGTGVRD YIHVVDLAKG HIAALRKLKE QCGCRIYNLG TGTGYSVLQM VQAMEKASGK KIPYKVARR EGDVAACYAN PSLAQEELGW TAALGLDRMC EDLWRWQKQN PSGFGTQA.		
Formulation	GALE Human solution containing 20mM Tris pH-8, 5mM DTT, 0.1M NaCl, 1mM EDTA & 10% glycerol.		

Introduction

GALE is an enzyme that participates as the third enzyme in the Leloir pathway of galactose metabolism. GALE is a homodimeric epimerase localized in bacterial, plant, and mammalian cells. GALE enhances the reverse chemical reaction, the conversion of UDP-glucose to UDP-galactose. UDP-galactose builds galactose-containing proteins and fats, which have a crucial part in chemical signaling, building cellular structures, transporting molecules, and producing energy.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

GALE Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 368 amino acids (1-348 a.a.) and having a molecular mass of 40.4 kDa. The GALE is fused to a 20 amino acids His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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