

**GALE, 1-348aa, Human, His tag, E.coli**

**Cat.NO.: TP02185**

3th Edition

**Synonyms:**UDP-glucose 4-epimeraes, SDR1E1.

**Description:**GALE, also known as UDP-glucose 4-epimeraes, is a protein that functions as the third enzyme in the Leloir pathway of galactose metabolism. It is a homodimeric epimerase found in bacterial, plant, and mammalian cells. This enzyme promotes the reverse chemical reaction, the conversion of UDP-glucose to UDP-galactose.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 5mM DTT, 0.1M NaCl, and 1mM EDTA.

**Molecular Weight:**40.4 kDa (368aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMAEKVLVTGGAGYIGSHTVLELLEAGYLPVVIDNFHNAFRGGGSLPESLRRVQEL  
TGRSVEFEEMDILDQGALQRLFKKYSFMAVIHFAGLKAVGESVQKPLDYRVLNLTGTIQLLEIMKAHGKLVKLVFSSS  
ATVYGNPQYLPLDEAHPTGGCTNPYGKSKFFIEEMIRDLQADKTWNAVLLRYFNPTGAHASGCIGEDPQGIPNNL  
MPYVSQVAIGRREALNVFGNDYDTEGTVRDIYHVVDLAKGHIAALRKLKEQCGCRIYNLGTGTGYSVLQMVQA  
MEKASGKKIPYKVARREGDVAACYANPSLAQEELGWTAALGLDRMCEDLWRWQKQNPSTGFGTQA

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.