

# Recombinant human GALT protein

Catalog Number: ATGP1904

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-379aa

### UniProt No.

P07902

### NCBI Accession No.

NP\_000146.2

### Alternative Names

Galactose-1-phosphate uridylyltransferase, Gal-1-P uridylyltransferase, uDP-glucose--hexose-1-phosphate uridylyltransferase

## PRODUCT SPECIFICATION

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### Molecular Weight

45.9 kDa (403aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

GALT catalyzes the second step of the Leloir pathway of galactose metabolism, namely the conversion of uDP-glucose + galactose-1-phosphate to glucose-1-phosphate + uDP-galactose. The absence of this enzyme results in classic galactosemia in humans and can be fatal in the newborn period if lactose is not removed from the diet. The pathophysiology of galactosemia has not been clearly defined. Two transcript variants encoding different isoforms have been found for this gene. Recombinant human GALT protein, fused to His-tag at N-terminus, was

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expressed in E. coli and purified by using conventional chromatography techniques

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MSRSGT DPQQRQQASE ADAATAATFRA NDHQHIRYNP LQDEWVLVSA  
HRMKRPWQQG VEPQLLKTVP RHDPLNPLCP GAIRANGEVN PQYDSTFLFD NDFPALQPDA PSPGSPDHPL FQAKSARGVC  
KVMCFHPWSD VTLPLMSVPE IRAVVDAWAS VTEELGAQYP WVQIFENKGA MMGCSNPHPH CQWASSFLP DIAQREERSQ  
QAYKSQHGEF LLMEYSRQEL LRKERLVLTS EHWLVLVFPW ATWPYQTLTL PRRHVRRRLPE LTPAERDDLA SIMKKLLTKY  
DNLFETSFPY SMGWHGAPTG SEAGANWNHW QLHAHYYPPL LRSATVRKFM VGYEMLAQAQ RDLTPEQAAE RLRALPEVHY  
HLGQKDRETA TIA

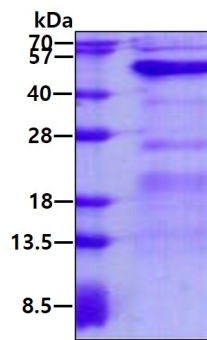
## General References

Reichardt JK.(1992) Hum Mutat. (3):190-6.

Tyfield L, Reichardt J, et al. (1999). Hum Mutat. (6):417-30.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.