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## Product Data Sheet

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Product Name: GALT Human  
 Cat. No.: GP21655  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Galactose-1-phosphate uridylyltransferase; Gal-1-P uridylyltransferase; UDP-glucose--hexose-1-phosphate uridylyltransferase; GALT.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMSRSGT DPQQRQQASE ADAAAATFRA          NDHQHIRYNP LQDEWVLVSA HRMKRPWQGQ VEPQLLKTVP RHDPLNPLCP          GAIRANGEVN PQYDSTFLFD NDFPALQPDA PSPGPSDHPL FQAKSARGVC          KVMCFHPWSD VTLPLMSVPE IRAVVDAWAS VTEELGAQYP WVQIFENKGA          MMGCSNPHPH CQVWASSFLP DIAQREERSQ QAYKSQHGEP LLMEYSRQEL          LRKERLVLTS EHWLVLPFW ATWPYQTL L PRRHVRRLPE LTPAERDDLA          SIMKKLLTKY DNLFETSFPY SMGWHGAPTG SEAGANWNHW QLHAHYPPPL          LRSATVRKFM VGYEMLAQAQ RDLTPEQAAE RLRALPEVHY HLGQKDRETA          TIA.</p>		
Formulation	The GALT solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl and 10% glycerol.		

### Introduction

Galactose-1-Phosphate Uridylyltransferase (GALT) catalyzes the 2nd step of the  $\beta$ -Leloir pathway of galactose metabolism, specifically the conversion of UDP-glucose + galactose-1-phosphate to glucose-1-phosphate + UDP-galactose. The deficiency of the GALT enzyme results in typical galactosemia in humans and may be fatal in the newborn stage if lactose is not eliminated from the diet. Galactosemia pathophysiology has not been clearly defined.

### 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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GALT Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 403 amino acids (1-379) and having a molecular mass of 45.9kDa. GALT is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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