

## Product datasheet for **AR50728PU-N**

### GALT (1-379, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	GALT (1-379, His-tag) human protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMSRSGT DPQQRQQASE AAAAAATFRA NDHQHIRYNP LQDEWLVSA HRMKRPWQGQ VEPQLLKTVP RHDPLNPLCP GAIRANGEVN PQYDSTFLFD NDFPALQPDA PSPGPSDHPL FQAKSARGVC KVMCFHPWSD VTLPLMSVPE IRAVWDAWAS VTEELGAQYP WVQIFENKGA MMGCSNPHPH CQWASSFLP DIAQREERSQ QAYKSQHGEPE LLMEYSRQEL LRKERLVLTS EHWWLVVFPW ATWPYQTLLE PRRHVRRLPE LTPAERDDLA SIMKKLLTKY DNLFETSFPY SMGWHGAPTG SEAGANWNHW QLHAHYYPPL LRSATVRKFM VGYEMLAQAQ RDLTPEQAAE RLRALPEVHY HLGQKDRETA TIA
Tag:	His-tag
Predicted MW:	45.9 kDa
Concentration:	lot specific
Purity:	>85% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl, 10% glycerol.
Preparation:	Liquid purified protein
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_000146</a>
Locus ID:	2592
UniProt ID:	<a href="#">P07902</a> , <a href="#">A0A0S2Z3Y7</a> , <a href="#">B2RAT6</a>
Cytogenetics:	9p13.3



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**Summary:**

Galactose-1-phosphate uridyl transferase (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. [provided by RefSeq, Apr 2012]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways

**Product images:**