

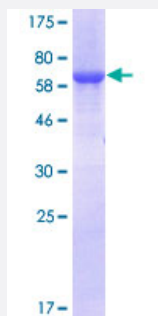
Full-Length

GALT (Human) Recombinant Protein (P01)

Catalog # H00002592-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GALT full-length ORF (AAH15045, 1 a.a. - 379 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSRSGTDPQQRQQASEADAAAATFRANDHQHIRYNPLQDEWVLVSAHRMKRPWQQGQVEPQLL
KTVPRHDPLNPLCPGAIRANGEVNPQYDSTFLFDNDFPALQPDAPSPGPSDHPLFQAKSARGVC
KVMCFHPWSDVTLPLMSVPEIRAVVDAWASVTEELGAQYPWWQIFENKGAMMGCSNPHPHCQ
VWASSFLPDIAQREERSQQAYKSQHGEPLLMEYSRQELLRKERLVLTSSEHWLVLVPFWATWPYQ
TLLPRRHVRRPELTPAERDDLASIMKKLLTKYDNLFETSFYPSMGWHGAPTGSEAGANWDHW
QLHAHYPPLLRSATVRKFMVGYEMLAQQAQRDLTPEQAAERLRALPEVHYHLGQKDRETATIA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.43

Interspecies Antigen Sequence

Mouse (92); Rat (89)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GALT

Entrez GeneID[2592](#)**GeneBank Accession#**[BC015045](#)**Protein Accession#**[AAH15045](#)**Gene Name**

GALT

Gene Alias

-

Gene Description

galactose-1-phosphate uridylyltransferase

Omim ID[230400 606999](#)**Gene Ontology**[Hyperlink](#)**Gene 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. [provided by RefSeq]

Other Designations

OTTHUMP00000021298|galactose-1-phosphate uridyl transferase

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Galactose metabolism](#)
- [Metabolic pathways](#)

Disease

- [Amenorrhea](#)
- [Cataract](#)
- [Diabetes Mellitus](#)
- [Endometriosis](#)
- [Galactosemias](#)
- [Genetic Predisposition to Disease](#)
- [Infertility](#)
- [Mental Retardation](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Phenylketonuria](#)
- [Phenylketonurias](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Syndrome](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)