

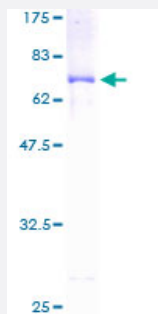
Full-Length

GCAT (Human) Recombinant Protein (P01)

Catalog # H00023464-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GCAT full-length ORF (AAH14457, 1 a.a. - 419 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MWPGNAWRAALFRVPRGRRAQSALALRGILEGELEGICGAGTWKSERVITSRQGPHIRVDGVS
GGILNFCANNYLGLSSHPEVIQAGLQALEEFGAGLSSVRFICGTQSIHKNLEAKIARFHQREDAILY
SCYDANAGLFEALLTPEDAVLSDELNHASIIDGIRLCKAHKYRYRHLDMALEAKLQEAQKHRLRL
VATDGAFSMDGDIAPLQEICCLASRYGALVFMDECHATGFLGPTGRGTDELLGVMDQVTIINSTLG
KALGGASGGYTTGPGPLVSLRQRARPYLFSNSLPPAVVGCASKALDLLMGSNTVQSMAAKTQ
RFRSKMEAAGFTISGASHPICPVMLGDARLASRMADDMLKRGIFVIGFSYPVVPKGKAWIRVQISA
VHSEEDIDRCVEAFVEVGRLHGALP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

71.61

Interspecies Antigen Sequence

Mouse (90); 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 — GCAT

Entrez GeneID	23464
GeneBank Accession#	BC014457
Protein Accession#	AAH14457
Gene Name	GCAT
Gene Alias	KBL, MGC23053
Gene Description	glycine C-acetyltransferase (2-amino-3-ketobutyrate coenzyme A ligase)
Omim ID	607422
Gene Ontology	Hyperlink
Gene Summary	The degradation of L-threonine to glycine consists of a two-step biochemical pathway involving the enzymes L-threonine dehydrogenase and 2-amino-3-ketobutyrate coenzyme A ligase. L-Threonine is first converted into 2-amino-3-ketobutyrate by L-threonine dehydrogenase. This gene encodes the second enzyme in this pathway, which then catalyzes the reaction between 2-amino-3-ketobutyrate and coenzyme A to form glycine and acetyl-CoA. The encoded enzyme is considered a class II pyridoxal-phosphate-dependent aminotransferase. [provided by RefSeq]
Other Designations	2-amino-3-ketobutyrate-CoA ligase AKB ligase aminoacetone synthase glycine C-acetyltransferase

Pathway

- [Glycine](#)