

Recombinant Full Length Human GCAT Protein, GST-tagged

Cat. No. GCAT-5165HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GCAT full-length ORF (AAH14457, 1 a.a. - 419 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	419 amino acids
Description	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]
Molecular Mass	71.61 kDa
AA Sequence	MWPGNAWRAALFRVPRGRRRAQSALALRGILEGELEGICGAGTWKSERVITSRQG PHIRVDGVSGGILNFCANNYLGLSSHPEVIQAGLQALEEFGAGLSSVRFICGTQSIHK NLEAKIARFHQREDAILYPCYDANAGLFEALLTPEDAVLSDELNHASIIDGIRLCKAH KYRYRHLDMALEAKLQEAQKHRLRLVATDGAFSMDGDIAPLQEICCLASRYGALVF MDECHATGFLGPTGRGTDELLGVMDQVTIINSTLGKALGGASGGYTTGPGPLVSL RQRRPYLFSNSLPPAVVGCASKALDLLMGSNTIVQSMAAKTQRFRRSKMEAAGFTIS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	GASHPICPVMLGDARLASRMADDMLKRGIFVIGFSYPVVPKGKAWIRVQISAVHSEE DIDRCVEAFVEVGRLHGALP
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	GCAT glycine C-acetyltransferase [Homo sapiens]
Official Symbol	GCAT
Synonyms	GCAT; glycine C-acetyltransferase; glycine C acetyltransferase (2 amino 3 ketobutyrate coenzyme A ligase); 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial; 2 amino 3 ketobutyrate coenzyme A ligase; KBL; AKB ligase; aminoacetone synthase; glycine acetyltransferase; 2-amino-3-ketobutyrate-CoA ligase; MGC23053;
Gene ID	23464
mRNA Refseq	NM_001171690
Protein Refseq	NP_001165161

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MIM	607422
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UniProt ID	O75600
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