

Recombinant Human GCAT Protein, His-tagged

Cat. No. GCAT-2195H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GCAT Protein (Tyr224-Cys404) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Tyr224-Cys404
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. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 14.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.8 kDa Accurate Molecular Mass: 23 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	GCAT glycine C-acetyltransferase [Homo sapiens (human)]
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

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Protein Refseq	NP_001165161
MIM	607422
UniProt ID	O75600

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