

Recombinant Human GCAT 293 Cell Lysate

Cat. No. GCAT-5993HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for glycine C-acetyltransferase (GCAT), nuclear gene encoding mitochondrial protein, transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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](#)

MIM [607422](#)

UniProt ID [O75600](#)

Chromosome Location 22q13.1

Pathway Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; threonine degradation II, organism-specific biosystem;

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Function

glycine C-acetyltransferase activity; pyridoxal phosphate binding; transferase activity, transferring acyl groups; transferase activity, transferring nitrogenous groups;

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