

Recombinant Human BAAT, GST-tagged

Cat. No. BAAT-10119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BAAT protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-418a.a.
Description	The protein encoded by this gene is a liver enzyme that catalyzes the transfer of C24 bile acids from the acyl-CoA thioester to either glycine or taurine, the second step in the formation of bile acid-amino acid conjugates. The bile acid conjugates then act as a detergent in the gastrointestinal tract, which enhances lipid and fat-soluble vitamin absorption. Defects in this gene are a cause of familial hypercholanemia (FHCA). Two transcript variants encoding the same protein have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	BAAT bile acid CoA: amino acid N-acyltransferase (glycine N-choloyltransferase) [
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	Homo sapiens]
Official Symbol	BAAT
Synonyms	BAAT; bile acid CoA: amino acid N-acyltransferase (glycine N-choloyltransferase); bile acid Coenzyme A: amino acid N acyltransferase (glycine N choloyltransferase); bile acid-CoA:amino acid N-acyltransferase; BAT; long-chain fatty-acyl-CoA hydrolase; bile acid Coenzyme A: amino acid N-acyltransferase (glycine N-choloyltransferase); BACAT; FLJ20300; MGC104432;
Gene ID	570
mRNA Refseq	NM_001127610
Protein Refseq	NP_001121082
MIM	602938
UniProt ID	Q14032
Chromosome Location	9q22.3
Pathway	Bile acid and bile salt metabolism, organism-specific biosystem; Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Biosynthesis of unsaturated fatty acids, organism-specific biosystem; Biosynthesis of unsaturated fatty acids, conserved biosystem; Conjugated bile acid biosynthesis, cholate => taurocholate/glycocholate, organism-specific biosystem;
Function	N-acyltransferase activity; carboxylesterase activity; glycine N-choloyltransferase activity; hydrolase activity; palmitoyl-CoA hydrolase activity; thiolester hydrolase

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activity; transferase activity, transferring acyl groups;

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