



# Recombinant Human Bile acid-CoA:amino acid N-acyltransferase (BAAT)

<b>Product Code</b>	CSB-EP613484HU-B
<b>Abbreviation</b>	BAAT
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q14032
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MIQLTATPVS ALVDEPVHIR ATGLIPFQMV SFQASLEDEN GDMFYSSQAHY RANEFGEVDL NHASSLGGDY MGVHPMGLFW SLKPEKLLTR LLKRDVMNRP FQVQVKLYDL ELIVNNKVAS APKASLTLEW WYVAPGVTRI KVREGRLRGA LFLPPGEGFL PGVIDLFGGL GGLLEFRASL LASRGFASLA LAYHNYEDLP RKPEVTDLEY FEEAANFLLR HPKVFSGSGV VVSVCQGVQI GLSMAYLKQ VTATVLINGT NFPFGIPQVY HGQIHQPLPH SAQLISTNAL GLELYRTFE TTQVGASQYL FPIEEAQQQF LFIVGEGDKT INSKAHAEQA IGQLKRHGKN NWTLLSYPGA GHLEPPYSP LCCASTTHDL RLHWGGEVIP HAAAQEHAWK EIQRFLRKHL IPDVTSQL
<b>Source</b>	E.coli
<b>Target Names</b>	BAAT
<b>Protein Names</b>	Recommended name: Bile acid-CoA:amino acid N-acyltransferase Short name= BACAT Short name= BAT EC= 2.3.1.65 Alternative name(s): Glycine N-choloyltransferase Long-chain fatty-acyl-CoA hydrolase EC= 3.1.2.2
<b>Expression Region</b>	1-418
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein 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.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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