

Datasheet for ABIN7552652

BAAT Protein (AA 1-418) (His tag)



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Overview

Quantity:	1 mg
Target:	BAAT
Protein Characteristics:	AA 1-418
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAAT protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant BAAT Protein expressed in mammalian cells.
Sequence:	<p>MIQLTATPVS ALVDEPVHIR ATGLIPQMV SFQASLEDEN GDMFYSAHY RANEFGEVDL NHASSLGDDY MGVHPMGLFW SLKPEKLLTR LLKRDVMNRP FQVQVKLYDL ELIVNNKVAS APKASLTLEW WYVAPGVTRI KVREGRLRGA LFLPPGEGFL PGVIDLFGGL GGLLEFRASL LASRGFASLA LAYHNYEDLP RKPEVTDLEY FEEAANFLLR HPKVFGSGVG VVSVCQGVQI GLSMAIYLKQ VTATVLINGT NFPFGIPQVY HGQIHQPLPH SAQLISTNAL GLLELYRTFE TTQVGASQYL FPIEEAQGQF LFIVGEGDKT INSKAHAEQA IGQLKRHGKN NWTLLSYPGA GHLIEPPYSP LCCASTTHDL RLHWGGEVIP HAAAEHAWK EIQRFLRKHL IPDVTSQSL</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Product Details

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

BAAT

Alternative Name:

BAAT ([BAAT Products](#))

Background:

Bile acid-CoA:amino acid N-acyltransferase (BACAT) (BAT) (EC 2.3.1.65) (Bile acid-CoA thioesterase) (Choloyl-CoA hydrolase) (EC 3.1.2.27) (Glycine N-choloyltransferase) (Long-chain fatty-acyl-CoA hydrolase) (EC 3.1.2.2),FUNCTION: Catalyzes the amidation of bile acids (BAs) with the amino acids taurine and glycine (PubMed:12810727, PubMed:8034703, PubMed:2037576, PubMed:12239217). More than 95 % of the BAs are N-acyl amidates with glycine and taurine (PubMed:8034703). Amidation of BAs in the liver with glycine or taurine prior to their excretion into bile is an important biochemical event in bile acid metabolism (PubMed:12810727). This conjugation (or amidation) plays several important biological roles in that it promotes the secretion of BAs and cholesterol into bile and increases the detergent properties of BAs in the intestine, which facilitates lipid and vitamin absorption (PubMed:12810727). May also act as an acyl-CoA thioesterase that regulates intracellular levels of free fatty acids (PubMed:12810727, PubMed:8034703, PubMed:12239217). In vitro, catalyzes the hydrolysis of long- and very long-chain saturated acyl-CoAs to the free fatty acid

Target Details

and coenzyme A (CoASH), and conjugates glycine to these acyl-CoAs (PubMed:12810727).
{ECO:0000269|PubMed:12239217, ECO:0000269|PubMed:12810727,
ECO:0000269|PubMed:2037576, ECO:0000269|PubMed:8034703,
ECO:0000303|PubMed:12810727, ECO:0000303|PubMed:8034703}.

Molecular Weight: 46.3 kDa

UniProt: [Q14032](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months