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BAAT Protein (AA 1-420) (His tag)



Image



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Quantity:	1 mg
Target:	BAAT
Protein Characteristics:	AA 1-420
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This BAAT protein is labelled with His tag.
Application: ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)	

Product Details

Sequence:

MAKLTAVPLS ALVDEPVHIQ VTGLAPFQVV CLQASLKDEK GNLFSSQAFY RASEVGEVDL EHDPSLGGDY MGVHPMGLFW SLKPEKLLGR LIKRDVMNSP YQIHIKACHP YFPLQDIVVS PPLDSLTLER WYVAPGVKRI QVKESRIRGA LFLPPGEGPF PGVIDLFGGA GGLMEFRASL LASRGFATLA LAYWNYDDLP SRLEKVDLEY FEEGVEFLLR HPKVLGPGVG ILSVCIGAEI GLSMAINLKQ IRATVLINGP NFVSQSPHVY HGQVYPPVPS NEEFVVTNAL GLVEFYRTFQ ETADKDSKYC FPIEKAHGHF LFVVGEDDKN LNSKVHANQA IAQLMKNGKK NWTLLSYPGA GHLIEPPYTP LCQASRMPIL IPSLSWGGEV IPHAAAQEHS WKEIQKFLKQ HLLPDLSSQL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Baat Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

• 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 will ensure that you receive a correctly folded protein.

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target: BAAT

Alternative Name: Baat (BAAT Products)

Target Details

Background:	Involved in bile acid metabolism. In liver hepatocytes catalyzes the second step in the	
	conjugation of C24 bile acids (choloneates) to taurine before excretion into bile canaliculi. The	
	major components of bile are cholic acid and chenodeoxycholic acid. In a first step the bile	
	acids are converted to an acyl-CoA thioester, either in peroxisomes (primary bile acids deriving	
	from the cholesterol pathway), or cytoplasmic at the endoplasmic reticulum (secondary bile	
	acids). May catalyze the conjugation of primary or secondary bile acids, or both. The	
	conjugation increases the detergent properties of bile acids in the intestine, which facilitates	
	lipid and fat-soluble vitamin absorption. In turn, bile acids are deconjugated by bacteria in the	
	intestine and are recycled back to the liver for reconjugation (secondary bile acids). May also	
	act as an acyl-CoA thioesterase that regulates intracellular levels of free fatty acids. In vitro,	
	catalyzes the hydrolysis of long- and very long-chain saturated acyl-CoAs to the free fatty acid	
	and coenzyme A (CoASH), and conjugates glycine to these acyl-CoAs.	
	{ECO:0000250 UniProtKB:Q14032}.	
Molecular Weight:	47.4 kDa Including tag.	
UniProt:	Q91X34	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:

Unlimited (if stored properly)

Images

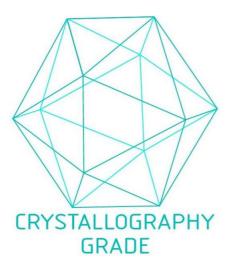


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process