

## Product datasheet for AR50906PU-N

## OriGene Technologies, Inc.

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## AKB ligase / GCAT (22-419, His-tag) Human Protein

**Product data:** 

**Product Type: Recombinant Proteins** 

**Description:** AKB ligase / GCAT (22-419, His-tag) human recombinant protein, 0.5 mg

Species: Human **Expression Host:** E. coli

**Expression cDNA Clone** 

MGSSHHHHHH SSGLVPRGSH MSALAQLRGI LEGELEGIRG AGTWKSERVI TSRQGPHIRV or AA Sequence:

DGVSGGILNF CANNYLGLSS HPEVIQAGLQ ALEEFGAGLS SVRFICGTQS IHKNLEAKIA RFHQREDAIL

YPSCYDANAG LFEALLTPED AVLSDELNHA SIIDGIRLCK AHKYRYRHLD MADLEAKLQE AQKHRLRLVA TDGAFSMDGD IAPLQEICCL ASRYGALVFM DECHATGFLG PTGRGTDELL GVMDQVTIIN STLGKALGGA SGGYTTGPGP LVSLLRQRAR PYLFSNSLPP AVVGCASKAL DLLMGSNTIV QSMAAKTQRF RSKMEAAGFT ISGASHPICP VMLGDARLAS RMADDMLKRG

IFVIGFSYPV VPKGKARIRV QISAVHSEED IDRCVEAFVE VGRLHGALP

Tag: His-tag Predicted MW: 45.0 kDa Concentration: lot specific

>85% by SDS - PAGE **Purity:** 

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Preparation: Liquid purified protein

**Protein Description:** Recombinant human GCAT protein, fused to His-tag at N-terminus, was expressed in E.coli.

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid Storage:

repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001165161

Locus ID: 23464 **UniProt ID:** 075600 Cytogenetics: 22q13.1 Synonyms: **KBL** 





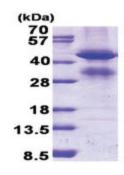
**Summary:** 

The degradation of L-threonine to glycine consists of a two-step biochemical pathway involving the enzymes L-threonine dehydrogenase and 2-amino-3-ketobutyrate coenzyme A ligase. L-Threonine is first converted into 2-amino-3-ketobutyrate by L-threonine dehydrogenase. This gene encodes the second enzyme in this pathway, which then catalyzes the reaction between 2-amino-3-ketobutyrate and coenzyme A to form glycine and acetyl-CoA. The encoded enzyme is considered a class II pyridoxal-phosphate-dependent aminotransferase. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 14. [provided by RefSeq, Jan 2010]

**Protein Pathways:** 

Glycine, serine and threonine metabolism

## **Product images:**



15% SDS-PAGE (3ug)