

**Human Adenosylhomocysteinase / AHCY Recombinant Protein, Bioactive  
(TBP0003, Store at -20°C ~ -80°C)**

<b>Catalog</b>	<b>Unit</b>
TBP0003-20UG	20 µg
TBP0003-100UG	100 µg
TBP0003-500UG	500 µg

### Product Description

Adenosylhomocysteinase (AHCY) is an enzyme that catalyzes the reversible hydrolysis of S-adenosylhomocysteine (SAH) to adenosine (Ado) and L-homocysteine (Hcy). It regulates the intracellular SAH concentration thought to be important for transmethylation reactions. Deficiency in this protein is one of the different causes of hypermethioninemia. Recombinant human AHCY protein, fused to His-tag at N-terminus, was expressed in E. coli, and purified by using proprietary chromatography techniques. This enzyme is validated for AHCY activity application.

### Product Details

**Expression System:** E. coli.

**Domain:** 1-432aa.

**UniProt No:** P23526.

**Alternative Names:** Adenosyl homocysteinase, AHCY, AdoHcyase, SAHH, S-adenosylhomocysteine hydrolase.

### Product Specification

**Molecular Weight:** 49.8 kDa (452aa) confirmed by MALDI-TOF

**Concentration:** 1mg/ml (determined by Bradford assay).

**Formulation:** Liquid in Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, No DTT.

**Purity:** > 95% by SDS-PAGE.

**Tag:** His-Tag.

**Biological Activity:** Specific activity is > 300pmol/min/mg.

**Storage Condition:** Store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

**Amino acid Sequence:**

MGSSHHHHHH SSGLVPRGSH MSDKLPYKVA DIGLAAWGRK ALDIAENEMP GLMRMRERYS ASKPLKGARI  
AGCLHMTVET AVLIETLVTL GAEVQWSSCN IFSTQDHAAA AIKAGIPVY AWKGETDEEY LWCIEQTLYF  
KDGPLNMILD DGGDLTNLIH TKYPQLLPGI RGISEETTTG VHNLYKMMAN GILKVPAINV NDSVTKSKFD  
NLYGCRESLI DGIKRATDVM IAGKVAVVAG YGDVVGKCAQ ALRGFGARVI ITEIDPINAL QAAMEGYEVT  
TMDEACQEGN IFVTTTGCID IILGRHFEQM KDDAIVCNIG HFDVEIDVKW LNENAVEKVN IKPQVDRYRL  
KNGRRIILLA EGRLVNLGCA MGHPSFVMSN SFTNQVMAQI ELWTHPKYP VGVHFLPKKL DEAVAEHLG  
KLVNKLTKLT EKQAQYLGMS CDGPFKPDHY RY.

### Applications

Enzyme Activity, and protein assay by SDS-PAGE

### Data

3µg by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.

### Relative Products

TBP0001	Amyloid b peptide human (1-40)
TBP0002	NNMT

For research use only

