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Datasheet for ABIN6388020

## AHCY Protein (AA 1-432) (His tag)

### 1 Image

#### Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 100 µg                                      |
| Target:                       | AHCY  |
| Protein Characteristics:      | AA 1-432                                    |
| Origin:                       | Human                                       |
| Source:                       | Baculovirus infected Insect Cells           |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This AHCY protein is labelled with His tag. |
| Application:                  | SDS-PAGE (SDS)                              |

#### Product Details

|                  |   |
|------------------|---|
| Sequence:        | ADLMSDKLPY KVADIGLAAW GRKALDIAEN EMPGLMRMRE RYSASKPLKG ARIAGCLHMT<br>VETAVLIETL VTLGAEVQWS SCNIFSTQDH AAAAIKAGI PVYAWKGETD EEYLWCIEQT<br>LYFKDGPLNM ILDDGGDLTN LIHTKYPQLL PGIRGISEET TTGVHNLYKM MANGILKVPA<br>INVNSVTKS KFDNLYGCRE SLIDGIKRAT DVMIAGKVAV VAGYGDVGKG CAQALRGFGA<br>RVIITEIDPI NALQAAMEGY EVTTMDEACQ EGNIFVTTTG CIDIILGRHF EQMKDDAIVC<br>NIGHFDVEID VKWLNENAVE KVNIKPQVDR YRLKNGRRII LLAEGRLVNL GCAMGHPSFV<br>MSNSFTNQVM AQIELWTHPD KYPVGVHFLP KKLDEAVAEA HLGKLNKLT KLTEKQAQYL<br>GMSCDGPFPK DHYRYHHHHH H |
| Purity:          | > 90 % by SDS - PAGE  |
| Endotoxin Level: | < 1.0 EU per 1 microgram of protein (determined by LAL method)  |

## Target Details

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|                   |  |
|-------------------|--|
| Target:           | AHCY   |
| Alternative Name: | AHCY ( <a href="#">AHCY Products</a> )   |
| Background:       | <p>AHCY, also known as adenosylhomocysteinase isoform 1, is an enzyme that catalyzes the reversible hydrolysis of S-adenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). AdoHcy hydrolysis is a reversible reaction with an equilibrium favoring AdoHcy formation, but hydrolysis prevails under physiological conditions due to the rapid removal of adenosine and homocysteine. Thus, AHCYs activity in mammals is directly related to homocysteine level, an independent risk factor for vascular disease. It also functions as a regulator of biological transmethylation by controlling the concentration of AdoHcy, a potent competitive inhibitor of all S-adenosyl-L-methionine methyltransferases. Recombinant human AHCY protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.</p> |
| Molecular Weight: | 48.8kDa (441aa) 40-57KDa (SDS-PAGE under reducing conditions.)   |
| NCBI Accession:   | <a href="#">NP_000678</a>  |
| UniProt:          | <a href="#">P23526</a>   |

## Application Details

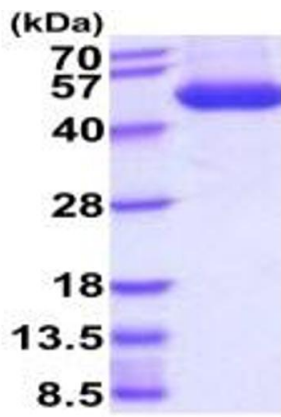
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|                    |  |
|--------------------|--|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions:      | For Research Use only  |

## Handling

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|                  |  |
|------------------|--|
| Format:          | Liquid   |
| Concentration:   | 0.25 mg/mL   |
| Buffer:          | Liquid. In Phosphate Buffered Saline ( pH 7.4) containing 10 % glycerol.   |
| Storage:         | 4 °C,-20 °C,-80 °C   |
| Storage Comment: | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |



15% SDS-PAGE (3ug)

**SDS-PAGE**

Image 1.