

Product information

AHCY, 1-432aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3578

Full name: Adenosylhomocysteinase isoform 1

NCBI Accession No.: NP_000678

Synonyms: AHCY, adoHcyase, SAHH

Description: 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, AHCY's 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.

Form: Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

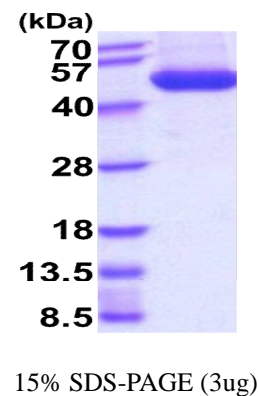
Molecular Weight: 48.8kDa (441 aa)
40-57KDa (SDS-PAGE under reducing conditions.)

Predicted N terminal: Ala

Purity: > 90% by SDS - PAGE.

Concentration: 0.25mg/ml (determined by Absorbance at 280nm)

Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)



Sequences of amino acids:

ADLMSDKLPY KVADIGLA AW GRKALDIAEN EMPGLMRMRE RYSASKPLKG ARIAGCLHMT VETAVLIETL VTLGAEVQWS SCNIFSTQDH
 AAAAIAKAGI PVYAWKGETD EEYLWCIEQT LYFKDGPLNM ILDDGGDLTN LIHTKYPQLL PGIRGISEET TTGVHNLKYM MANGILKVPA
 INVNSVTKS KFDNLYGCRE SLIDGIKRAT DVM IAGKVAV VAGYGDVKGK CAQALRGFGA RVIITEIDPI NALQAAMEGY EVTTMDEACQ
 EGNIFVTTTG CIDIILGRHF EQMKDDAIVC NIGHFDVEID VKWLNENAVE KVN I KPQVDR YRLKNGRRI I LLAEGRLVNL GCAMGHPSFV
 MSNSFTNQVM AQIELWTHPD KYPVGVHFLP KKLDEAVAEA HLGKLNKLT KLTEKQAQYL GMSCDGPFPK DHYRYHHHHH H

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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General references:

Vugrek O. *et al.*, (2009) *Hum Mutat.* 30: E555-65.

Park SJ. *et al.*, (2015) *Am J Cancer Res.* 5: 2127-2138.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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