Product information

Ahcy, 1-432aa

Mouse, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3650

Full name: Adenosylhomocysteinase

NCBI Accession No.: NP_057870

Synonyms: AA987153, AL024110, CuBP, SAHH

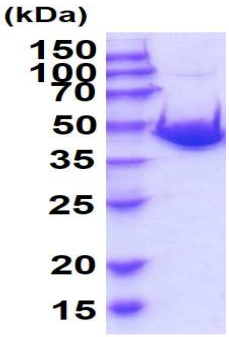
Description: Ahcy, also known as Adenosylhomocysteinase, is an enzyme that catalyzes the reversible hydrolysis of S-sdenosylhomocysteine (AdoHcy) to adenosine (Ado) and L-homocysteine (Hcy). AdoHcy hydrolysis is a reversible reaction with an equilibrium favoring AdoHcy formation, but hydrolysis prevails 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 mouse Ahcy, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid. In 20mM Tris-Hcl buffer (pH8.0) containing 40% glycerol 0.2M NaCl, 1mM DTT

Molecular Weight: 50.2 kDa (456aa) confirmed by MALDI-TOF

Purity: > 90% by SDS-PAGE

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHMSDKLP YKVADIGLAA WGRKALDIAE NEMPGLMRMR EMYSASKPLK GARIAGCLHM TVETAVLIET LVALGAEVRW SSCNIFSTQD HAAAAIAKAG IPVFAWKGET DEEYLWCIEQ TLHFKDGPLN MILDDGGDLT NLIHTKYPQL LSGIRGISEE TTTGVHNLYK MMSNGILKVP AINVNDSVTK SKFDNLYGCR ESLIDGIKRA TDVMIAGKVA VVAGYGDVGK GCAQALRGFG ARVIITEIDP INALQAAMEG YEVTTMDEAC KEGNIFVTTT GCVDIILGRH FEQMKDDAIV CNIGHFDVEI DVKWLNENAV EKVNIKPQVD RYWLKNGRRI ILLAEGRLVN LGCAMGHPSF VMSNSFTNQV MAQIELWTHP DKYPVGVHFL PKKLDEAVAE AHLGKLNVKL TKLTEKQAQY LGMPINGPFK PDHYRY

General references:

Vugrek O., *et al*. (2009) *Hum Mutat.* 30(4): E555-65.

Park SJ. *et al.,* (2015) *Am J Cancer Res.* 5(7):2127-2138

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

Manufactured for:
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Product information

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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