Product information

AMD1, 68-334aa

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

Cat. No. IBATGP1605

Full name: S-adenosylmethionine decarboxylase proenzyme

NCBI Accession No.: NP_001625

Synonyms: ADOMETDC, AMD, DKFZp313L1234, FLJ26964, SAMDC

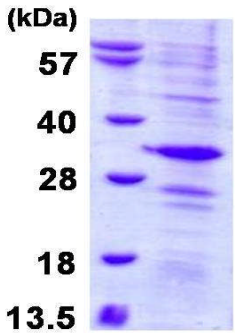
Description: AMD1, also known as adenosylmethionine decarboxylase proenzyme, is synthesized initially as an inactive proenzyme. The post-translation cleavage follows an unusual pathway, termed non-hydrolytic serinolysis, in which the side chain hydroxyl group of the serine supplies its oxygen atom to form the C-terminus of the beta chain, while the remainder of the serine residue undergoes an oxidative deamination to produce ammonia and the pyruvoyl group blocking the N-terminus of the alpha chain. Recombinant human AMD1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Molecular Weight: 33.4 kDa (292aa) confirmed by MALDI-TOF

Purity: > 80% by SDS - PAGE

Concentration: 0.5 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSHMSSMFV SKRRFILKTC GTTLLLKALV PLLKLARDYS GFDSIQSFFY SRKNFMKPSH QGYPHRNFQE EIEFLNAIFP NGAAYCMGRM NSDCWYLYTL DFPESRVISQ PDQTLEILMS ELDPAVMDQF YMKDGVTAKD VTRESGIRDL IPGSVIDATM FNPCGYSMNG MKSDGTYWTI HITPEPEFSY VSFETNLSQT SYDDLIRKVV EVFKPGKFVT TLFVNQSSKC RTVLASPQKI EGFKRLDCQS AMFNDYNFVF TSFAKKQQQQ QS

General references:

Tolbert W.D., *et al*. (2001) *Biochemistry*. 40:9484-9494

Xiong H., *et al*. (1999) *J. Biol. Chem*. 274:35059-35066

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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