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Recombinant human AMD1 protein

Catalog Number: ATGP1605

PRODUCT INFORMATION

Expression system

E.coli

Domain

68-334aa

UniProt No.

P17707

NCBI Accession No.

NP 001625

Alternative Names

S-adenosylmethionine decarboxylase proenzyme, ADOMETDC, AMD, DKFZp313L1234, FLJ26964, SAMDC

PRODUCT SPECIFICATION

Molecular Weight

33.3 kDa (292aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 Histag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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Amino acid Sequence

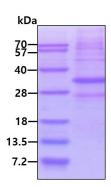
<MGSSHHHHHH SSGLVPRGSH MGSHM>SSMFV SKRRFILKTC GTTLLLKALV PLLKLARDYS GFDSIQSFFY SRKNFMKPSH QGYPHRNFQE EIEFLNAIFP NGAAYCMGRM NSDCWYLYTL DFPESRVISQ PDQTLEILMS ELDPAVMDQF YMKDGVTAKD VTRESGIRDL IPGSVIDATM FNPCGYSMNG MKSDGTYWTI HITPEPEFSY VSFETNLSQT SYDDLIRKVV EVFKPGKFVT TLFVNQSSKC RTVLASPQKI EGFKRLDCQS AMFNDYNFVF 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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

