

# Recombinant human AMD1 protein

Catalog Number: ATGP1605

## PRODUCT INFORMATION

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### 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

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### 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

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### 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.

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## Amino acid Sequence

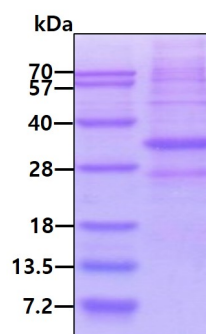
<MGSSHHHHHH SSGLVPRGSH MGSHM>SSMFV SKRRFILKTC GTTLLKALV PLLKLARDYS GFDSIQSFFY  
SRKNFMKPSH QGYPHRNFAQ EIEFLNAIFP NGAAYCMGRM NSDCWYLYTL DFPEPESRISQ PDQTLLEILMS ELDPVAVMDQF  
YMKDGVTAKD VTRESGIRDL IPGSVIDATM FNPCGYSMNG MKSDGTWYTI HITPEPEFSY VSFETNLSQT SYDDLIRKVV  
EVFKPGKFVT TLFVNQSSKC RTVLASPKI EGFKRLDCQS 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.