

## AMD1 Human

**Description:**AMD1 Human Recombinant produced in E. coli is a single polypeptide chain containing 292 amino acids (68-334) and having a molecular mass of 33.4 kDa.AMD1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #:ENPS-631

**Synonyms:**Adenosylmethionine decarboxylase 1, S-adenosylmethionine decarboxylase proenzyme, AdoMetDC, S-adenosylmethionine decarboxylase 1, SAMDC, AMD, EC 4.1.1.50.

For research use only.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**GSSHHHHHH SSGLVPRGSH MGSMMSSMFV SKRRFILKTC  
GTTLLKALV PLLKLARDYS GFDSIQSFFY SRKNFMKPSH QGYPHRNFE EIEFLNAIFP  
NGAAYCMGRM NSDCWYLYTL DFPESRVISQ PDQTLLEILMS ELDPAVMDQF YMKDGVTAKD  
VTRESGIRDL IPGSVIDATM FNPCGYSMNG MKSDGTYWTI HITPEPEFSY VSFETNLSQT  
SYDDLIRKVV EVF

**Purity:**Greater than 80% as determined by SDS-PAGE.

### Formulation:

The AMD1 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

Adenosylmethionine decarboxylase proenzyme (AMD1) is synthesized originally as an inactive proenzyme. Putrescine stimulates both the proenzyme processing and the catalytic activity. The catalytic activity is inhibited by iodoacetic acid. The active enzyme formation entails a self-maturation process in which the active site pyruvoyl group is produced from an internal serine residue using an autocatalytic post-translational modification.

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