

Recombinant Human Adenosylmethionine Decarboxylase 1, T7-tagged

Cat. No. AMD1-577H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human adenosylmethionine decarboxylase 1 is expressed in <i>E. coli</i> . The molecular weight of the recombinant Human AMD1 is 38.3 kDa and contains 334 amino acids. AMD1 contains T7 tag at N-terminus.
Species	Human
Source	E.coli
Description	AMD1 catalyzes the removal of the carboxylate group of S-adenosylmethionine in the polyamine biosynthesis pathway. Adenosylmethionine decarboxylase is an enzyme which catalyzes the conversion of S-Adenosyl methionine to S-adenosyl-5"-3-methylpropylamine. This gene encodes an important intermediate enzyme in polyamine biosynthesis. The polyamines spermine, spermidine, and putrescine are low-molecular-weight aliphatic amines essential for cellular proliferation and tumor promotion. Two alternatively spliced transcript variants that encode different proteins have been identified.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered clear solution.
Formulation	AdoMetDC at 0.1mg/ml, 10mM Tris, pH 8.0, 0.1% Triton X-100 and 0.002% NaN ₃ .
Storage	S-Adenosylmethionine Decarboxylase although stable at 14°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a

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carrier protein (0.1% HSA or BSA).

GENE INFORMATION

Gene Name [AMD1 adenosylmethionine decarboxylase 1 \[Homo sapiens \]](#)

Synonyms adenosylmethionine decarboxylase 1; AMD1; AMD; SAMDC; ADOMETDC; FLJ26964; DKFZp313L1234; S-adenosylmethionine decarboxylase 1; S-adenosylmethionine decarboxylase 1

Gene ID [262](#)

mRNA Refseq [NM_001033059](#)

Protein Refseq [NP_001028231](#)

MIM [180980](#)

UniProt ID [Q5VXN4](#)

Chromosome Location 6q21-q22

Pathway Arginine and proline metabolism; Cysteine and methionine metabolism; Metabolic pathways; Metabolism of amino acids and derivatives; Metabolism of polyamines

Function lyase activity; Adenosylmethionine decarboxylase activity; adenosylmethionine decarboxylase activity

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