
Product Data Sheet

Product Name: AMD1 Human
 Cat. No.: GP21400
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Adenosylmethionine decarboxylase 1; S-adenosylmethionine decarboxylase proenzyme; AdoMetDC; S-adenosylmethionine decarboxylase 1; SAMDC; AMD; EC 4.1.1.50.		
Amino Acid Sequence	GSSHHHHHH SGLVPRGSH MGSMMSSMFV SKRRFILKTC GTLLLLKALV PLLKLARDYS GFDSIQSFFY SRKNFMKPSH QGYPHRNFQE EIEFLNAIFP NGAAYCMGRM NSDCWYLYTL DFPESRVISQ PDQTLLEILMS ELDPAVMDQF YMKDGVTAKD VTRESGIRD LIPGSVIDATM FNPCGYSMNG MKSDGTYWTI HITPEPEFSY VSFETNLSQT SYDDLIRKVV EVFKPGKFVT TLFVNQSSKC RTVLASPQKI EGFKRLDCQS AMFNDYNFVF TSFAKKQQQQ QS		
Formulation	The AMD1 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol.		

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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