SANTA CRUZ BIOTECHNOLOGY, INC.

# AdoMetDC (m): 293T Lysate: sc-118259



#### **BACKGROUND**

Polyamines are compounds that have two or more primary amino groups and are important to cellular processes, such as cellular growth, proliferation and tumor promotion. AdoMetDC (adenosylmethionine decarboxylase 1), also known as S-adenosylmethionine decarboxylase proenzyme (SAMDC) or AMD1, is a 334 amino acid protein which is an important intermediate enzyme in polyamine biosynthesis pathways. Using a pyruvoyl group as a cofactor, AdoMetDC catalyzes the conversion of S-adenosyl-L-methionine to (5-deoxy-5-adenosyl)(3-aminopropyl)-methylsulfonium salt and carbon dioxide. AdoMetDC is synthesized as an inactive proenzyme that undergoes self-maturation to form two non-identical subunits designated  $\alpha$  and  $\beta$ . Active AdoMetDC forms a heterotetramer of two  $\alpha$  chains and two  $\beta$  chains. Both AdoMetDC proenzyme processing and mature AdoMetDC catalytic activity are stimulated by putrescine, while catalytic activity is inhibited by iodoacetic acid.

# **REFERENCES**

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- Guidotti, A., et al. 2007. S-adenosylmethionine and DNA methyltransferase-1 mRNA overexpression in psychosis. Neuroreport 18: 57-60.
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# **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

#### **CHROMOSOMAL LOCATION**

Genetic locus: Amd1 (mouse) mapping to 10 B1.

### **PRODUCT**

AdoMetDC (m): 293T Lysate represents a lysate of mouse AdoMetDC transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

# **APPLICATIONS**

AdoMetDC (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive AdoMetDC antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

# **RESEARCH USE**

For research use only, not for use in diagnostic procedures.

# **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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