

# Recombinant Rat Acadsb Protein, His-tagged

**Cat. No.** Acadsb-26R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Acadsb Protein (Met1-Ala298) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                    |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | Met1-Ala298                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Enables electron transfer activity and short-branched-chain-acyl-CoA dehydrogenase activity. Acts upstream of or within acyl-CoA metabolic process. Predicted to be located in mitochondrial matrix. Predicted to be active in mitochondrion. Orthologous to human ACADSB (acyl-CoA dehydrogenase short/branched chain). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 36.4 kDa<br>Accurate Molecular Mass: 36 kDa                                                                                                                                                                                                                                                    |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                               |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for                                                                                                                                            |

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48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**Storage**

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

**Storage Buffer**

PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.

**Reconstitution**

Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name**

[Acadsb acyl-CoA dehydrogenase, short/branched chain \[ Rattus norvegicus \(Norway rat\) \]](#)

**Official Symbol**

[Acadsb](#)

**Synonyms**

ACADSB; acyl-CoA dehydrogenase, short/branched chain; ACAD7; SBCAD; 2-MEBCAD; short/branched chain specific acyl-CoA dehydrogenase, mitochondrial; 2-methylbutyryl-coenzyme A dehydrogenase; 2-methyl branched chain acyl-CoA dehydrogenase; 2 MEBCAD; 2 methyl branched chain acyl CoA dehydrogenase; 2 methylbutyryl CoA dehydrogenase; 2-methylbutyryl-CoA dehydrogenase; ACDSB\_HUMAN; acyl CoA dehydrogenase, short/branched chain; OTTHUMP00000020685; OTTHUMP00000046795; Short/branched chain specific acyl-CoA dehydrogenase; acyl-Coenzyme A dehydrogenase, short/branched chain; 2-methylbutyryl-coenzyme A dehydrogenase; short/branched chain specific acyl-CoA dehydrogenase, mitochondrial; EC 1.3.99

**Gene ID**

[25618](#)

**mRNA Refseq**

[NM\\_013084](#)

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| Protein Refseq | NP_037216 |
|----------------|-----------|

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| UniProt ID | P70584 |
|------------|--------|

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