

## Recombinant Mouse Aass protein, His & T7-tagged

**Cat. No.** Aass-8112M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Aass aa. (Met477~Leu926 (Accession # Q99K67)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Met477~Leu926
<b>Description</b>	This gene encodes a bifunctional mitochondrial protein that catalyzes the first two steps in the lysine degradation pathway. The N-terminus contains lysine-ketoglutarate reductase activity and converts lysine to saccharopine, whereas the C-terminus contains saccharopine dehydrogenase activity and converts saccharopine to alpha-aminoadipate semialdehyde. Mutations in a human gene encoding a highly similar protein are associated with familial hyperlysinemia.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 52.8kDa
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>90%
<b>Characteristic</b>	The isoelectric point is 5.7.

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<b>Applications</b>	SDS-PAGE; WB; ELISA; IP
<b>Stability</b>	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Aass aminoadipate-semialdehyde synthase [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Aass</a>
<b>Synonyms</b>	LKR; LOR; SDH; Lorsdh; LKR/SDH; LOR/SDH; lysine oxoglutarate reductase; saccharopine dehydrogenase; alpha-aminoadipic semialdehyde synthase, mitochondrial
<b>Gene ID</b>	<a href="#">30956</a>
<b>mRNA Refseq</b>	<a href="#">NM_013930.4</a>
<b>Protein Refseq</b>	<a href="#">NP_038958.2</a>

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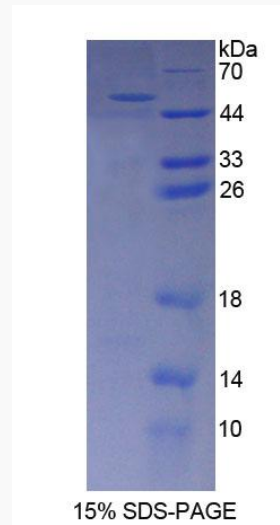
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UniProt ID

Q99K67

SDS-PAGE



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