Recombinant Mouse Aass protein, His & T7-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Aass aa. (Met477~Leu926 (Accession # Q99K67)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Met477~Leu926
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 52.8kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 5.7.

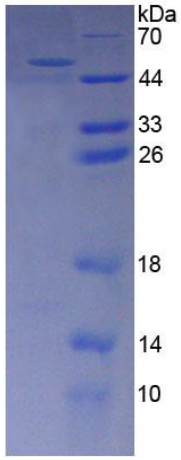
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Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

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

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UniProt ID	Q99K67
SDS-PAGE	 15% SDS-PAGE

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