

Recombinant Human LIAS Protein, His-tagged

Cat. No. LIAS-2393H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human LIAS Protein (Met1-Gln288) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Gln288
Description	The protein encoded by this gene belongs to the biotin and lipoic acid synthetases family. Localized in the mitochondrion, this iron-sulfur enzyme catalyzes the final step in the de novo pathway for the biosynthesis of lipoic acid, a potent antioxidant. The deficient expression of this enzyme has been linked to conditions such as diabetes, atherosclerosis and neonatal-onset epilepsy. Alternative splicing occurs at this locus, and several transcript variants encoding distinct isoforms have been identified.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 35.8 kDa Accurate Molecular Mass: 36 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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 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, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	LIAS lipoic acid synthetase [Homo sapiens (human)]
Official Symbol	LIAS
Synonyms	LIAS; lipoic acid synthetase; lipoyl synthase, mitochondrial; LAS; lip-syn; lipoate synthase; LS; LIP1; PDHLD; HUSSY-01; MGC23245;
Gene ID	11019
mRNA Refseq	NM_006859
Protein Refseq	NP_006850
MIM	607031

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UniProt ID

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