

## Product datasheet for **TP762621**

### LIAS (NM\_006859) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human lipoic acid synthetase (LIAS), nuclear gene encoding mitochondrial protein, transcript variant 1, full length, with N-terminal GST and C-terminal His tag, expressed in E.coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding the region full length of LIAS
Tag:	N-GST and C-HIS
Predicted MW:	41.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	50 mM Tris-HCl, pH 8.0, 8 M urea
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_006850</a>
Locus ID:	11019
UniProt ID:	<a href="#">O43766</a> , <a href="#">A0A024R9W0</a>
RefSeq Size:	1764
Cytogenetics:	4p14
RefSeq ORF:	1116
Synonyms:	HGCLAS; HUSSY-01; LAS; LIP1; LS; PDHLD



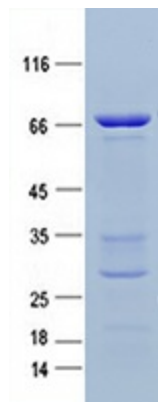
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**Summary:**

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. [provided by RefSeq, Aug 2020]

**Protein Pathways:**

Lipoic acid metabolism, Metabolic pathways

**Product images:**

Purified recombinant protein LIAS was analyzed by SDS-PAGE gel and Coomassie Blue Staining.