

## Product datasheet for PH309378

### LDHA (NM\_005566) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	LDHA MS Standard C13 and N15-labeled recombinant protein (NP_005557)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209378
Predicted MW:	36.5 kDa
Protein Sequence:	>RC209378 representing NM_005566 Red=Cloning site Green=Tags(s)  MATLKDQLIYNLLKEEQTPQNKITVVGAVGVMACAISILMKDLADELALVDVIEDKLGEMMDLQHGS FLRTPKIVSGKDYNTANSKLVIIITAGARQQEGESRLNLVQRNVNIFKFIIPNVVKYSPNCKLLIVSNPV DILTYVAWKISGFPKNRVIGSGCNLDSARFRYLMGERLGVHPLSCHGWLGEHGDSSVPVWVWGMNVAGVS LKTLPDLGTDKDKQWKEVHKQVVEAYEVIKLGKGYTSWAIGLSVADLAESIMKNLRRVHPVSTMIGL YGIKDDVFLSVPCILGQNGISDLVKVTLTSEEEARLKKSADTLWGIQKELQF  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_005557</a></u>
RefSeq Size:	1661
RefSeq ORF:	996
Synonyms:	GSD11; HEL-S-133P; LDHM; PIG19
Locus ID:	3939



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UniProt ID: [P00338](#), [V9HWB9](#)

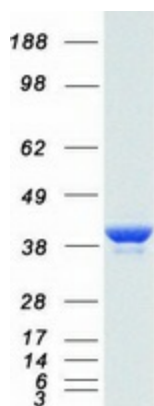
Cytogenetics: 11p15.1

**Summary:** The protein encoded by this gene catalyzes the conversion of L-lactate and NAD to pyruvate and NADH in the final step of anaerobic glycolysis. The protein is found predominantly in muscle tissue and belongs to the lactate dehydrogenase family. Mutations in this gene have been linked to exertional myoglobinuria. Multiple transcript variants encoding different isoforms have been found for this gene. The human genome contains several non-transcribed pseudogenes of this gene. [provided by RefSeq, Sep 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Cysteine and methionine metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism

### Product images:



Coomassie blue staining of purified LDHA protein (Cat# [TP309378]). The protein was produced from HEK293T cells transfected with LDHA cDNA clone (Cat# [RC209378]) using MegaTran 2.0 (Cat# [TT210002]).