

Recombinant Human HOGA1 Protein, MYC/DDK-tagged

Cat. No. HOGA1-1844H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HOGA1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293
Species	Human
Source	HEK293
Description	The authors of PMID:20797690 cloned this gene while searching for genes in a region of chromosome 10 linked to primary hyperoxalurea type III. They noted that even though the encoded protein has been described as a mitochondrial dihydrodipicolinate synthase-like enzyme, it shares little homology with E. coli dihydrodipicolinate synthase (Dhdps), particularly in the putative substrate-binding region. Moreover, neither lysine biosynthesis nor sialic acid metabolism, for which Dhdps is responsible, occurs in vertebrate mitochondria. They propose that this gene encodes mitochondrial 4-hydroxyl-2-oxoglutarate aldolase (EC 4.1.3.16), which catalyzes the final step in the metabolic pathway of hydroxyproline, releasing glyoxylate and pyruvate. This gene is predominantly expressed in the liver and kidney, and mutations in this gene are found in patients with primary hyperoxalurea type III. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Nov 2010].
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	35.1 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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Concentration	>50 ug/mL as determined by microplate BCA method
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GENE INFORMATION

Gene Name	HOGA1 4-hydroxy-2-oxoglutarate aldolase 1 [Homo sapiens (human)]
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Official Symbol	HOGA1
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Synonyms	C10orf65; DHDPS2; DHDPSL; HP3; NPL2
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Gene ID	112817
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mRNA Refseq	NM_001134670.1
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Protein Refseq	NP_001009997.2
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MIM	613597
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UniProt ID	Q86XE5.1
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