

Recombinant Full Length Human HOGA1 Protein, GST-tagged

Cat. No. HOGA1-1737HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human C10orf65 full-length ORF (BAF82129.1, 1 a.a. - 327 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	327 amino acids
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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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Molecular Mass	61.6 kDa
AA Sequence	MLGPQVWSSVRQGLSRSLSRNVGVWASGEGKKVDIAGIYPPVTTTPFTATAEVDYGK LEENLHKLGTFFPRGFVVQGSNGEFPFLTSSERLEVSVRVRQAMPKNRLLLAGSGC ESTQATVEMTVSMAQVGADAAMVVTPCYRGRMSSAALIHHTKVADLSPIPVVLY SVPANTGLDLPVDAVVTLSQHPNIVGMKDSGGDVTRIGLIVHKTRKQDFQVLASAG FLMASYALGAVGGVCALANVLGAQVCQLERLCCTGQWEDAQKLQHRLIEPNAAVT RRFGIPGLKKIMDWFGYYGGPCRAPLQELSPAEEEEALRMDFTSNGWL
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	HOGA1 4-hydroxy-2-oxoglutarate aldolase 1 [Homo sapiens (human)]
Official Symbol	HOGA1
Synonyms	HP3; NPL2; DHDPS2; DHDPSL; C10orf65
Gene ID	112817
mRNA Refseq	NM_001134670.1
Protein Refseq	NP_001128142.1
MIM	613597
UniProt ID	Q86XE5