

Recombinant Human OGDH Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. OGDH-119H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OGDH MS Standard C13 and N15-labeled recombinant protein (NP_002532) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes one subunit of the 2-oxoglutarate dehydrogenase complex. This complex catalyzes the overall conversion of 2-oxoglutarate (alpha-ketoglutarate) to succinyl-CoA and CO(2) during the Krebs cycle. The protein is located in the mitochondrial matrix and uses thiamine pyrophosphate as a cofactor. A congenital deficiency in 2-oxoglutarate dehydrogenase activity is believed to lead to hypotonia, metabolic acidosis, and hyperlactatemia. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Mass	115.9 kDa
AA Sequence	MFHLRTCAAKLRPLTASQTVKTF SQNRPAARTFQQIRCYSAPVAAEPFLSGTSSNY VEEMYCAWLENPKSVHKSWDIFFRNTNAGAPPGTAYQSPLPLSRGSLAAVAHAQSL VEAQPNVDKLVEDHLAVQSLIRAYQIRGHHVAQLDPLGILDADLDSSVPADIISSTDKL GFYGLDESDLDKVFHLPTTTFIGGQESALPLREIIRREMAYCQHIGVEFMFINDLEQ CQWIRQKFETPGIMQFTNEEKRTLRLVLRSTRFEEFLQRKWSSEKRFGLGCEVLI PALKTIIDKSSSENGVDYVIMGMPHRGRNLNVLNVIRKELEQIFCQFDSKLEAADEGSG

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DVKYHLGMYHRRINRVTDNRNITLSLVANPSHLEAADPVVMGKTKAEQFYCGDTEGK
KVMSILLHGDAAFAGQGIVYETFHLSDLPSYTTHTGTVHVVVNNQIGFTTDPRMARSS
PYPTDVARVVNAPIFHVNSDDPEAVMYVCKVAAEWRSTFHKDVVVDLVCYRRNGH
NEMDEPMFTQPLMYKQIRKQKPVLLQKYAELLVSQGVVNQPEYEEEISKYDKICEEAF
ARSKDEKILHIKHWLDSPWPGFFTLDGQPRSMSCPSTGLTEDILTHIGNVASSVPVE
NFTIHGGLSRILKTRGEMVKNRTVDWALAEYMAFGSLLKEGIHIRLSGQDVERGTFS
HRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSLSEYGVLGFEFGFAMASPNA
LVLWEAQFGDFHNTAQCIIDQFICPGQAKWVRQNGIVLLLPHGMEGMGPEHSSARP
ERFLQMCNDDPDVLPDLKEANFDINQLYDCNWWVVNCSTPGNFFHVLRRQILLPFR
KPLIIFTPKSLLRHPEARSSFDEMLPGTHFQRVIPEDGPAAQNPENVKRLLFCTGKVV
YDLTRERKARDMVGQVAITRIEQLSPFPDLLLLKEVQKYPNAELAWCQEEHKNQGY
YDYVKPRLRTTISRAPVWYAGRDPAAAPATGNKKTHLTELRLLDTAFDLDFKNNF
STRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name OGDH oxoglutarate dehydrogenase [Homo sapiens (human)]

Official Symbol OGDH

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Synonyms	OGDH; oxoglutarate dehydrogenase; AKGDH; E1k; OGDC; 2-oxoglutarate dehydrogenase, mitochondrial; 2-oxoglutarate dehydrogenase complex component E1; OGDC-E1; oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide); oxoglutarate decarboxylase; oxoglutarate dehydrogenase (succinyl-transferring); testicular tissue protein Li 131; EC 1.2.4.2
Gene ID	4967
mRNA Refseq	NM_002541
Protein Refseq	NP_002532
MIM	613022
UniProt ID	Q02218
SDS-PAGE	