

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 CO₂ 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
VEAQPNDKLVEDHLAVQSLIRAYQIRGHHVAQLDPLGILDADLDSSVPADIISSTDKL
GFYGLDESDLDKVFHLPTTTFIGGQESALPLREIIRREMAYCQHIGVEFMFINDLEQ
CQWIRQKFETPGIMQFTNEEKRTLRLRSTRFEEFLQRKWSSEKRFGLGCEVLI
PALKTIIDKSSSENGVDYVIMGMPHRGRLNVLANVIRKELEQIFCQFDSKLEAADEGSG

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DVKYHLGMYHRRINRVTDNRNITLSLVANPSHLEAADPVVMGKTKAEQFYCGDTEGK
 KVMSILLHGDAAFAGQGIVYETFHLSDLPSYTTHTGTVHVVVNNQIGFTTDPRMARSS
 PYPTDVARVVNAPIFHVNSDDPEAVMYVCKVAAEWRSTFHKDVVVDLVCYRRNGH
 NEMDEPMFTQPLMYKQIRKQKPVLLQKYAELLVSQGVVNPQPEYEEIISKYDKICEEAF
 ARSKDEKILHIKHWLDSPWPGFFTLDGQPRSMSCPSTGLTEDILTHIGNVASSVPVE
 NFTIHGGLSRILKTRGEMVKNRTVDWALAEYMAFGSLLKEGIHIRLSGQDVERGTFS
 HRHHVLHDQNVDKRTCIPMNLWPNQAPYTVCNSSLSEYGVLFELGFAMASPNA
 LVLWEAQFGDFHNTAQCIIDQFICPGQAKWVRQNGIVLLLPHGMEGMGPEHSSARP
 ERFLQMCNDDPDVLPDLKEANFDINQLYDCNWWVVNCSTPGNFFHVLRRQILLPFR
 KPLIIFTPKSLLRHPEARSSFDEMLPGTHFQRVIPEDGPAAQNPENVKRLLFCTGKVY
 YDLTRERKARDMVGQVAITRIEQLSPFPDLLLLKEVQKYPNAELAWCQEEHKNQGY
 YDYVKPRLRTTISRKPVWYAGRDPAAAPATGNKKTHLTELQRLLDTAFDLDFKFN
 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](#)

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