

Recombinant Human D2HGDH 293 Cell Lysate

Cat. No. D2HGDH-7088HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for D-2-hydroxyglutarate dehydrogenase (D2HGDH), nuclear gene encoding mitochondrial protein is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	D2HGDH D-2-hydroxyglutarate dehydrogenase [Homo sapiens (human)]
Official Symbol	D2HGDH
Synonyms	D2HGDH; D-2-hydroxyglutarate dehydrogenase; D2HGD; D-2-hydroxyglutarate dehydrogenase, mitochondrial; NP_001274178.1; EC 1.1.99.-; NP_689996.4
Gene ID	728294
mRNA Refseq	NM_152783
Protein Refseq	NP_689996
MIM	609186
UniProt ID	Q8N465
Chromosome Location	2q37.3
Pathway	Interconversion of 2-oxoglutarate and 2-hydroxyglutarate, organism-specific biosystem; Metabolism, organism-specific biosystem; Pyruvate metabolism and Citric Acid (TCA) cycle, organism-specific biosystem; The citric acid (TCA) cycle and respiratory electron transport, organism-specific biosystem

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Function

(R)-2-hydroxyglutarate dehydrogenase activity; UDP-N-acetylmuramate dehydrogenase activity; flavin adenine dinucleotide binding

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