

## 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.                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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**

|                            |                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | D2HGDH D-2-hydroxyglutarate dehydrogenase [ Homo sapiens (human) ]                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>     | D2HGDH                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>            | D2HGDH; D-2-hydroxyglutarate dehydrogenase; D2HGD; D-2-hydroxyglutarate dehydrogenase, mitochondrial; NP_001274178.1; EC 1.1.99.-; NP_689996.4                                                                                                                                                            |
| <b>Gene ID</b>             | 728294                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_152783                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_689996                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                 | 609186                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | Q8N465                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 2q37.3                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Function**

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA