

## Active D-2-Hydroxyglutarate Dehydrogenase (D2HGDH), Recombinant

D-2-hydroxyglutarate dehydrogenase, D2HGDH, D2HGD

Catalog # PBV11456r

### Specification

#### Active D-2-Hydroxyglutarate Dehydrogenase (D2HGDH), Recombinant - Product info

Primary Accession [N/A](#)  
Calculated MW **39 kDa kDa**

#### Active D-2-Hydroxyglutarate Dehydrogenase (D2HGDH), Recombinant - Additional Info

##### Other Names

D-2-hydroxyglutarate dehydrogenase,  
D2HGDH, D2HGD

Gene Source	<b>Acidaminococcus fermentans</b>
Source	<b>E. coli</b>
Assay&Purity	<b>SDS-PAGE; ≥99%</b>
Recombinant	<b>Yes</b>
Sequence	<b>Full-length his-tagged D2HGDH</b>

##### Target/Specificity

D2HGDH

##### Application Notes

Reconstitute in water to a concentration of 0.1-5 mg/ml. The solution can be diluted into other aqueous buffers and stored at -20°C for future use.

##### Format

Dry powder

##### Storage

-20°C; Lyophilized powder

#### Active D-2-Hydroxyglutarate Dehydrogenase (D2HGDH), Recombinant - Background

D-2-hydroxyglutarate (D2HG) level is significantly increased in metabolic diseases and various cancers such as acute myeloid leukemia. Studies suggest that the detection of D2HG serves as a biomarker assay related to IDH (isocitrate dehydrogenase) mutations. D2HGDH is a special NAD-dependent enzyme which reacts with D2HG specifically and converts D2HG to  $\alpha$ -ketoglutarate. D2HGDH is a key enzyme to distinguish between two metabolites, D2HG and L-2-hydroxyglutarate (L2HG), during biomarker assays.

#### Active D-2-Hydroxyglutarate Dehydrogenase (D2HGDH), Recombinant - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)