

**Active D-2-Hydroxyglutaratate Dehydrogenase (D2HGDH), Recombinant**  
**D-2-hydroxyglutarate dehydrogenase, D2HGDH, D2HGD**  
**Catalog # PBV11456r****Specification**

---

**Active D-2-Hydroxyglutaratate Dehydrogenase (D2HGDH), Recombinant - Product info**

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

**Active D-2-Hydroxyglutaratate 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>
<b>Target/Specificity</b>	
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-Hydroxyglutaratate 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](#)

**Active D-2-Hydroxyglutaratate Dehydrogenase (D2HGDH), Recombinant - Images****Active D-2-Hydroxyglutaratate 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.