# Recombinant Full Length Human HGD Protein, C-Flag-tagged

**Cat. No.** HGD-1475HFL **Lot. No.** (See product label)

## SPECIFICATION

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|---|---|
| **Product Overview** | Recombinant Full Length Human HGD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | This gene encodes the enzyme homogentisate 1,2 dioxygenase. This enzyme is involved in the catabolism of the amino acids tyrosine and phenylalanine. Mutations in this gene are the cause of the autosomal recessive metabolism disorder alkaptonuria. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 49.8 kDa |
| **AA Sequence** | MAELKYISGFGNECSSEDPRCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPRSTN KRSWLYRILPSVSH KPFESIDEGHVTHNWDEVDPDPNQLRWKPFEIPKASQKKVDF VSGLHTLCGAGDIKSNNGLAIHIFLCNT SMENRCFYNSDGDFLIVPQKGNLLIYTEFG KMLVQPNEICVIQRGMRFSIDVFEETRGYILEVYGVHFEL PDLGPIGANGLANPRDFL IPIAWYEDRQVPGGYTVINKYQGKLFAAKQDVSPFNVVAWHGNYTPYKYNLK NFMV INSVAFDHADPSIFTVLTAKSVRPGVAIADFVIFPPRWGVADKTFRPPYYHRNCMSEF MGLIRGHY EAKQGGFLPGGGSLHSTMTPHGPDADCFEKASKVKLAPERIADGTMA FMFESSLSLAVTKWGLKASRCLD ENYHKCWEPLKSHFTPNSRNPAEPNTRTRPLEQKLISEEDLAANDILDYKDDDDKV |

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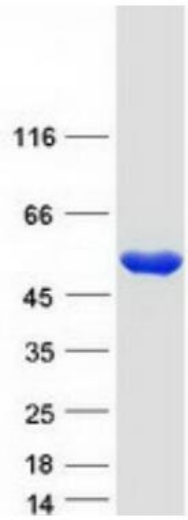
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|---|---|
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Families** | Druggable Genome |
| **Protein Pathways** | Metabolic pathways, Tyrosine metabolism |
| **Full Length** | Full L. |

## GENE INFORMATION

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|---|---|
| **Gene Name** | HGD homogentisate 1,2-dioxygenase [ Homo sapiens (human) ] |
| **Official Symbol** | HGD |
| **Synonyms** | AKU; HGO |
| **Gene ID** | 3081 |
| **mRNA Refseq** | NM_000187.4 |
| **Protein Refseq** | NP_000178.2 |

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| **MIM** | 607474 |
| **UniProt ID** | Q93099 |




Coomassie blue staining of purified HGD protein.

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