

# Recombinant Human HGD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HGD-6707H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	HGD MS Standard C13 and N15-labeled recombinant protein (NP_000178) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	50 kDa
<b>AA Sequence</b>	<p>MAELKYISGFGNECSSEDPKCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPRSTN  KRSWLYRILPSVSHKPFESIDEGHVTHNWDEVDPDPNQLRWKPFEPKASQKKVDF  VSGLHTLCGAGDIKSNGLAIHIFLCNTSMENRCFYNSDGDFLIVPQKGNLLIYTEFG  KMLVQPNEICVIQRGMRFSDVFEETRGIYILEVYGVHVFELPDLGPIGANGLANPRDFLI  PIAWYEDRQVPGGYTVINKYQGKLFQAAKQDVSPFNVAWHGNYPYKYNLKFMVI  NSVAFDHADPSIFTVLTAKSVRPGVAIADFVIFPPRWGVADKTRPPYYHRNCMSEF  MGLIRGHYEAKQGGFLPGGSLHSTMTPHGPDADCFEKASKVKLAPERIADGTMAF  MFESSLSLAVTKWGLKASRCLDENYHKCWEPLKSHFTPNRNPAEPNTRTRPLEQK  LISEEDLAANDILDYKDDDDKV</p>
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	HGD homogentisate 1,2-dioxygenase [ Homo sapiens (human) ]
<b>Official Symbol</b>	HGD
<b>Synonyms</b>	HGD; homogentisate 1,2-dioxygenase; AKU, homogentisate 1,2 dioxygenase (homogentisate oxidase); HGO; homogentisate oxidase; homogentisicase; homogentisate oxygenase; homogentisic acid oxidase; AKU; FLJ94126;
<b>Gene ID</b>	3081
<b>mRNA Refseq</b>	NM_000187
<b>Protein Refseq</b>	NP_000178
<b>MIM</b>	607474
<b>UniProt ID</b>	Q93099

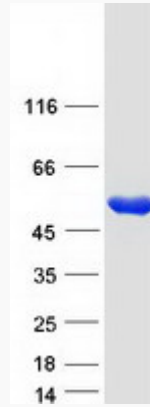
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SDS-PAGE



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