

## Product datasheet for TP310009

### HGD (NM\_000187) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human homogentisate 1,2-dioxygenase (homogentisate oxidase) (HGD), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210009 protein sequence Red=Cloning site Green=Tags(s)

MAELKYISGFGNECSSEDPKCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPRSTNKRSLYRILPSVSH  
KPFESIDEGHVTHNWDEVDPPDNQLRWKPFEPKASQKKVDFVSLHTLCGAGDIKSNNGLAIHIFLCNT  
SMENRCFYNSDGDFLIVPQKGNLLIYTEFGKMLVQPNEICVIQRGMRFSDVFEETRGYILEVYGVHFL  
PDLGPIGANLANPRDFLIPIAWYEDRQVPGGYTVINKYQGKLFQAKQDVSPFNVVAWHGNYTPYKYNLK  
NFMVINSVAFDHADPSIFTVLTAKSVRPGVAIADFVIFPPRWGVADKTFRPPYYHRNCMSEFMGLIRGHY  
EAKQGGFLPGGSLHSTMPHGPDADCFEKASKVKLAPERIADGTMAFMFESSLSLAVTKWGLKASRCLD  
ENYHKCWEPLKSHFTPNRNPAPEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	49.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_000178](#)

Locus ID: 3081

UniProt ID: [Q93099](#)

RefSeq Size: 2012

Cytogenetics: 3q13.33

RefSeq ORF: 1335

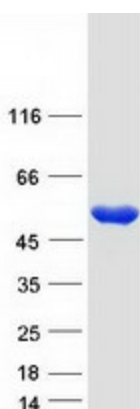
Synonyms: AKU; HGO

**Summary:** 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.[provided by RefSeq, May 2010]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Tyrosine metabolism

### Product images:



Coomassie blue staining of purified HGD protein (Cat# TP310009). The protein was produced from HEK293T cells transfected with HGD cDNA clone (Cat# [RC210009]) using MegaTran 2.0 (Cat# [TT210002]).