

## Product datasheet for PH310009

### HGD (NM\_000187) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	HGD MS Standard C13 and N15-labeled recombinant protein (NP_000178)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210009
Predicted MW:	50 kDa
Protein Sequence:	>RC210009 protein sequence Red=Cloning site Green=Tags(s)

MAELKYISGFGNECSSEDPKCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCPKSTNKRSLYRILPSVSH  
KPFESIDEGHVTHNWDEVDPDPNQLRWKPFEPKASQKKVDFVSLHTLCGAGDIKSNGLAIHIFLCNT  
SMENRCFYNSDGDFLIVPQKGNLLIYTEFGKMLVQPNEICVIQGMRFSDIVFEEETRGIILEVYGVHFL  
PDLGPIGANLANPRDFLIPIAWYEDRQVPGGYTVINKYQGKLF AAKQDVSPFNVAWHGNYTPYKYNLK  
NFMVINSVAFDHADPSIFTVLAKSVRPGVAIADFVIFPPRWGVADKTFRPPYYHRNCMSEFMGLIRGHY  
EAKQGGFLPGGSLHSTMTPHGPDADCFEKASKVKLAPERIADGTMAFMFESSLSLAVTKWGLKASRCLD  
ENYHKWEPLKSHFTPNSRNP AEPN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000178</u>
RefSeq Size:	2012
RefSeq ORF:	1335
Synonyms:	AKU; HGO



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Locus ID: 3081

UniProt ID: [Q93099](#)

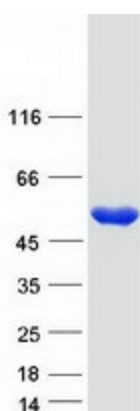
Cytogenetics: 3q13.33

**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]).