

## Product datasheet for **TP306860M**

### HPD (NM\_002150) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human 4-hydroxyphenylpyruvate dioxygenase (HPD), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206860 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MTTYSDKGAKPERGRFLHFHSVTFWVGNKQAASFYCSKMGFEPLAYRGLETGSREVVSHVIKQGKIVFV  
LSSALNPWNKEMGDHLVKHGDGVKDIAFEVEDCDYIVQKARERGAKIMREPWVEQDKFGKVKFAVLQTYG  
DTHTLVKEMNYIGQFLPGYEAPAFMDPLLKLPKCSLEMIDHIVGNQPDQEMVSASEWYLKLNLFHFRFW  
SVDDTQVHTEYSSLRISIVANYEESIKMPINEPAPGKKKSQIQEYVDYNGGAGVQHIALKTEDIITAIRH  
LRERGLEFLSVPSTYYKQLREKLKTAKIKVKENIDALEELKILVDYDEKGYLLQIFTKPVQDRPTLFLEV  
IQRHNNHQFGAGNFNSLFKAFEEEEQNLRGNLNMTNGVPGM

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	44.8 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.
RefSeq:	<u><a href="#">NP_002141</a></u>
Locus ID:	3242



[View online »](#)

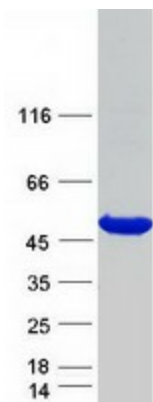
UniProt ID: [P32754](#)  
RefSeq Size: 1440  
Cytogenetics: 12q24.31  
RefSeq ORF: 1179  
Synonyms: 4-HPPD; 4HPPD; GLOD3; HPPDASE; PPD

**Summary:** The protein encoded by this gene is an enzyme in the catabolic pathway of tyrosine. The encoded protein catalyzes the conversion of 4-hydroxyphenylpyruvate to homogentisate. Defects in this gene are a cause of tyrosinemia type 3 (TYRO3) and hawkinsinuria (HAWK). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Phenylalanine metabolism, Tyrosine metabolism, Ubiquinone and other terpenoid-quinone biosynthesis

### Product images:



Coomassie blue staining of purified HPD protein (Cat# [TP306860]). The protein was produced from HEK293T cells transfected with HPD cDNA clone (Cat# [RC206860]) using MegaTran 2.0 (Cat# [TT210002]).