

Recombinant Human HPD

Cat. No. HPD-28754TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HPD produced in <i>Saccharomyces cerevisiae</i> ; amino acids 1-393; 393 amino acids, 44.9kDa.
Species	Human
ProteinLength	1-393 a.a.
Description	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.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MTTYSKDGAKPERGRFLHFHSVTFWVGNAKQAASFYCSKM GFEPLAYRGLETGSR EVS SHVIKQGKIVFVLSSALNPWNK EMGDHLVKHGDGVKDIAFEVEDCDYIVQKAR

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ERGAKIMRE PWVEQDKFGKVKFAVLQTYGDTTHTLVEKMNYIGQFLPGY EAPAFM
 DPLLKLPKCSLEMIDHIVGNQPDQEMVSASEWY LKNLQFHRFWSVDDTQVHTEY
 SSLRSIVVANYEESIKMPI NEPAPGKKKSQIQEYVDYNGGAGVQHIALKTEDIITAIRH
 LRERGLEFLSVPSTYYKQLREKLKTAKIKVKENIDALEEL KILVDYDEKGYLLQIFTKP
 VQDRPTLFLEVIQRHNNHQGFG AGNFNSLFKAEEEEQNLRGNLTNMETNGVVPGM

Full Length Full L.

GENE INFORMATION

Gene Name HPD 4-hydroxyphenylpyruvate dioxygenase [Homo sapiens]

Official Symbol HPD

Synonyms HPD; 4-hydroxyphenylpyruvate dioxygenase; PPD; 4 HPPD; 4HPPD; GLOD3; glyoxalase domain containing 3;

Gene ID 3242

mRNA Refseq NM_001171993

Protein Refseq NP_001165464

MIM 609695

Uniprot ID P32754

Chromosome Location 12q14-qter

Pathway Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific

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biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Phenylalanine and tyrosine catabolism, organism-specific biosystem; Phenylalanine metabolism, organism-specific biosystem;

Function

4-hydroxyphenylpyruvate dioxygenase activity; 4-hydroxyphenylpyruvate dioxygenase activity; metal ion binding;

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