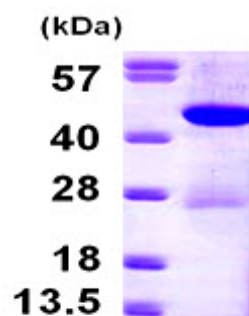


AR09694PU-N

Human HPD / PPD (1-393, His-tag) - Purified

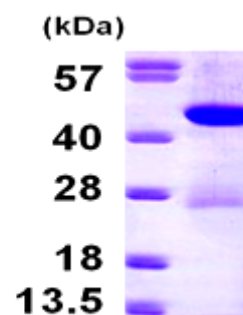
Alternate names:	4-hydroxyphenylpyruvate dioxygenase, 4-hydroxyphenylpyruvic acid oxidase, 4HPPD, HPPDase
Quantity:	50 µg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	4-hydroxyphenylpyruvate dioxygenase isoform 1, also known as HPD, is an Fe-containing enzyme, that catalyzes the second reaction in the catabolism of tyrosine the conversion of 4-hydroxyphenylpyruvate to homogentisate. Existing as a homodimer, HPD uses zinc as a cofactor to catalyze the third step in the conversion of L-phenylalanine to fumarate and acetoacetic acid. Defects in the gene encoding HPD are the cause of tyrosinemia type 3 and hawkinsinuria, both of which are inborn errors of metabolism that are associated with a variety of symptoms, including mental retardation and seizures and hair and urine abnormalities.
Uniprot ID:	P32754
NCBI:	NP_002141
GeneID:	3242
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM NaCl
Description:	Recombinant human HPD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SSGLVPRGSH MTTYSKDGAK PERGRFLHFH SVTFWVGNAK QAASFYCSKM GFEPLAYRGL ETGSREVVSH VIKQGKIVFV LSSALNPWNK EMGDHLVKHG DGVKDIAFEV EDCDYIVQKA RERGAKIMRE PWVEQDKFGK VKFAVLQTYG DTTHTLVEKM NYIGQFLPGY EAPAFMDPLL PKLPKCSLEM IDHIVGNQPD QEMVSASEWY LKNLQFHRFW SVDDTQVHTE YSSLRISIVA NYEESIKMPI NEPAPGKKKS QIQEYVDYNG GAGVQHIALK TEDIITAIRH LRERGLEFLS VPSTYYKQLR EKLKTAKIKV KENIDALEEL KILVDYDEKG YLLQIFTKPV QDRPTLFLEV IQRHNNHQFG AGNFNSLFKA FEEEQNLRGV LTNMETNGVV PGM Molecular weight: kDa (413aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human HPD, 1- 393 aa, His-tagged



15% SDS-PAGE (3ug)