



4HPPD Recombinant Protein

Cat. No.: 92-016



Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	Met1-Met393
FUSION TAG:	N-6 His tag
TESTED APPLICATIONS:	
APPLICATIONS:	This recombinant protein can be used for biological assays. For research use only.
PREDICTED MOLECULAR WEIGHT:	47.1 kD

Ψ Properties

PURITY:	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
PHYSICAL STATE:	Liquid
BUFFER:	Supplied as a 0.2 um filtered solution of 20mM TrisHCl, 50mM NaCl, 1mM DTT, 0.1mM PMSF, pH 8.0. It is not recommended to reconstitute to a concentration less than 100 ug/ml.

STORAGE CONDITIONS:

Store at -20°C, stable for 6 months after receipt.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Ψ Additional Info

OFFICIAL SYMBOL:	HPD
ALTERNATE NAMES:	4-Hydroxyphenylpyruvate Dioxygenase, 4-Hydroxyphenylpyruvic Acid Oxidase, 4HPPD, HPD, HPPDase, PPD
ACCESSION NO.:	P32754
GENE ID:	3242

Ψ Background and References

BACKGROUND:	<p>4-Hydroxyphenylpyruvate Dioxygenase (4HPPD) belongs to the 4HPPD family. 4HPPD is a key enzyme in the degradation of tyrosine, which catalyzes the second reaction in the catabolism of tyrosine the conversation of 4-hydroxyphenylpyruvate to homogentisate. 4HPPD exists in homodimer forms, which uses zinc as a cofactor to catalyze the third step in the conversion of L-phenylalanine to fumarate and acetoacetic acid. When the active 4HPPD enzyme concentration is low in the human body, it results in high levels of tyrosine concentration in the blood, which can cause mild mental retardation at birth, and degradation in vision as a patient grows older.</p>
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