

Product Name: Recombinant Human 4HPPD (N-6His)
Catalog #: PEH0806

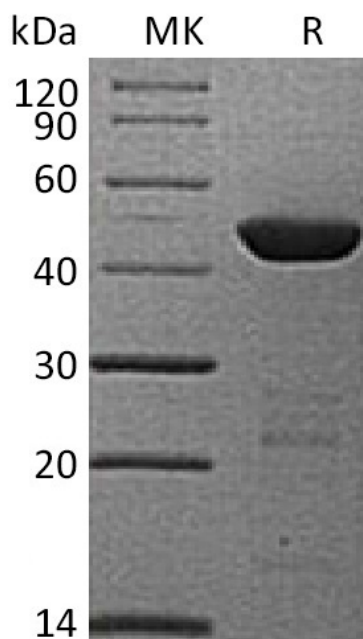


Summary

Name	HPD/PPD/4HPPD/HPPDase
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human 4-Hydroxyphenylpyruvate Dioxygenase is produced by our E.coli expression system and the target gene encoding Met1-Met393 is expressed with a 6His tag at the N-terminus.
Accession #	P32754
Host	E.coli
Species	Human
Predicted Molecular Mass	47.1 KDa
Formulation	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 50mM NaCl, 1mM DTT, 20% Glycerol, pH 8.0.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

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Alternative Names

4-Hydroxyphenylpyruvate Dioxygenase; 4-Hydroxyphenylpyruvic Acid Oxidase; 4HPPD; HPD; HPPDase; HPD; PPD

Background

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 conversion 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.

Note

For Research Use Only , Not for Diagnostic Use.