

## 32-8076: Recombinant Human 4-Hydroxyphenylpyruvate Dioxygenase/4HPPD/HPPDase (N-6His)

**Gene :** HPD  
**Gene ID :** 3242  
**Uniprot ID :** P32754

### Description

Source: E.coli.

MW :47.1kD.

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. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 50mM NaCl, 1mM DTT, 0.1mM PMSF, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMTTYSKDGAKPERGRFLHFHSVTFWVGNAKQAASFYCSKMGFEPLAYRGLTGSREVVSHVIKQKIVFVLSSALNPWNKEMGDHLVKHGDGVDIAFEVEDCDYIVQKARERGA KIMREPWVEQDKFGKVFVAVLQTYGDTTHTLVEKMNYIGQFLPGYEAPAFMDPLLKPKCSLEMIDHIVGNQPDQEMVSASEWYLNKLFHFRFWSVDDTQVHTEYSSLRISVVANYEESIKMPINEPAPGKKKSQIQEYVDYNGGAGVQHIALKTEDIITAIRHLRERGLEFLSVPSTYYKQLREKLKTAKIKVKENIDALEELKILVDYDEKGYLLQIFTKPVQDRPTLFLEVIQRHNNHQGFGAGNFNSLFKAFEEEEQNLRGNLTNMETNGVVPGM

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.