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Datasheet for ABIN7318119 HPD Protein (His tag)

Overview

Quantity:	50 µg
Target:	HPD
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HPD protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human HPD/4HPPD Protein (His Tag)
Sequence:	Met 1-Met393
Characteristics:	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.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	HPD
Alternative Name:	HPD/4HPPD (HPD Products)
Background:	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

Target Details

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.

Synonym: 4-Hydroxyphenylpyruvate Dioxygenase, 4-Hydroxyphenylpyruvic Acid Oxidase, 4HPPD, HPD, HPPDase, HPD, PPD

Molecular Weight: 47.1 kDa

UniProt: [P32754](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 50 mM NaCl, 1 mM DTT, 0.1 mM PMSF, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.