

# Product Data Sheet

## QDPR Protein, Human (HEK293, His)

Cat. No.:	HY-P71092
Synonyms:	Dihydropteridine Reductase; HDHPR; Quinoid Dihydropteridine Reductase; QDPR; DHPR
Species:	Human
Source:	HEK293
Accession:	P09417 (A2-F244)
Gene ID:	5860
Molecular Weight:	Approximately 29.0 kDa

### DESCRIPTION

#### Background

Quinoid dihydropteridine reductase (QDPR) is an enzyme that plays a critical role in the metabolism of biopterin compounds. Specifically, QDPR catalyzes the conversion of quinonoid dihydrobiopterin into tetrahydrobiopterin, a crucial cofactor in various biological processes. Tetrahydrobiopterin is involved in the synthesis of neurotransmitters, such as

serotonin and dopamine, and serves as a cofactor for enzymes like phenylalanine hydroxylase, which is essential for amino acid metabolism. By facilitating the reduction of quinonoid dihydrobiopterin, QDPR contributes to the recycling and regeneration of tetrahydrobiopterin, ensuring its availability for various cellular processes. It has to highlight QDPR's specific catalytic function in the biopterin pathway, emphasizing its importance in maintaining the balance of biopterin cofactors critical for neurotransmitter synthesis and other essential biochemical reactions.

#### Caution: Product has not been fully validated for medical applications. For research use only.

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