

# Recombinant Human QDPR Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** QDPR-3987H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | QDPR MS Standard C13 and N15-labeled recombinant protein (NP_000311) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>This gene encodes the enzyme dihydropteridine reductase, which catalyzes the NADH-mediated reduction of quinonoid dihydrobiopterin. This enzyme is an essential component of the pterin-dependent aromatic amino acid hydroxylating systems. Mutations in this gene resulting in QDPR deficiency include aberrant splicing, amino acid substitutions, insertions, or premature terminations. Dihydropteridine reductase deficiency presents as atypical phenylketonuria due to insufficient production of biopterin, a cofactor for phenylalanine hydroxylase.</p> |
| <b>Molecular Mass</b>   | 25.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MAAAAAAGEARRVLVYGGRGALGSRCVQAFARNWWWASVDVVENEEASASIIVK<br>MTDSFTEQADQVTAEVGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQ<br>SIWTSTISSHLATKHLKEGGLTLAGAKAALDGTGPMIGYGMAGAVHQLCQSLAGK<br>NSGMPPGAAAIAVLPTLDTPMNRKSMPEADFSSWTPLEFLVETFDHWITGKNRPS<br>SGSLIQVVTTEGRTELTTPAYFTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

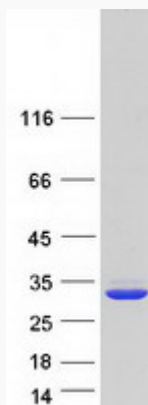
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | QDPR quinoid dihydropteridine reductase [ Homo sapiens (human) ]                                                                                                                                                                                                                                 |
| <b>Official Symbol</b> | QDPR                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | QDPR; quinoid dihydropteridine reductase; dihydropteridine reductase; 6; 7 dihydropteridine reductase; DHPR; PKU2; SDR33C1; short chain dehydrogenase/reductase family 33C; member 1; HDHPR; 6,7-dihydropteridine reductase; short chain dehydrogenase/reductase family 33C, member 1; FLJ42391; |
| <b>Gene ID</b>         | 5860                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_000320                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_000311                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 612676                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID</b>      | P09417                                                                                                                                                                                                                                                                                           |

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**SDS-PAGE**

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