

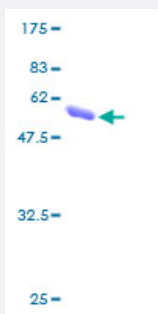
Full-Length

## QDPR (Human) Recombinant Protein (P01)

Catalog # H00005860-P01

Size 25 ug, 10 ug

### Applications



### Specification

|                               |                                                                                                                                                                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description           | Human QDPR full-length ORF ( AAH00576, 1 a.a. - 244 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                  |
| Sequence                      | MAAAAAAGEARRVLVYGGRGALGSRVQAFRARNWWVASVDVVENEEASASIVKMTDSFTEQ<br>ADQVTAIEVGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQSWTSTISSHLATKHLK<br>EGLLTLAGAKAALDGTGPMIGYGMAGAVHQLCQSLAGKNSGMPPGAAAIAVLPVTLDTMPNR<br>KSMPEADFSSWTPLEFLVETFDHWITGKNRPSSGSLIQVVTTEGRTLPAYF |
| Host                          | Wheat Germ (in vitro)                                                                                                                                                                                                                                      |
| Theoretical MW (kDa)          | 52.58                                                                                                                                                                                                                                                      |
| Interspecies Antigen Sequence | Mouse (94); Rat (95)                                                                                                                                                                                                                                       |
| Preparation Method            | <a href="#">in vitro wheat germ expression system</a>                                                                                                                                                                                                      |
| Purification                  | Glutathione Sepharose 4 Fast Flow                                                                                                                                                                                                                          |
| Quality Control Testing       | 12.5% SDS-PAGE Stained with Coomassie Blue.                                                                                                                                                                                                                |
| Storage Buffer                | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                   |
| Storage Instruction           | Store at -80°C. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                            |

## Note

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — QDPR

Entrez GeneID [5860](#)

GeneBank Accession# [BC000576](#)

Protein Accession# [AAH00576](#)

Gene Name QDPR

Gene Alias DHPR, FLJ42391, PKU2, SDR33C1

Gene Description quinoid dihydropteridine reductase

Omim ID [261630](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** 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. [provided by RefSeq]

**Other Designations** 6,7-dihydropteridine reductase|short chain dehydrogenase/reductase family 33C, member 1

## Pathway

- [Folate biosynthesis](#)

- [Metabolic pathways](#)

## Disease

- [Anorexia Nervosa](#)
- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Bulimia](#)
- [Dystonic Disorders](#)
- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)