

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

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

SPECIFICATION

Product Overview	QDPR MS Standard C13 and N15-labeled recombinant protein (NP_000311) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<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.</p> <p>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>
Molecular Mass	25.6 kDa
AA Sequence	<pre> MAAAAAAGEARRVLVYGGRGALGSRCVQAFRARNWWWASVDVVENEEASASIIVK MTDSFTEQADQVTAEVGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQ SIWTSTISSHLATKHLKEGGLLTLGAKAALDGTGPMIGYGMAGAVHQLCQSLAGK NSGMPPGAAAIAVLPVTLDTPMNRKSMPEADFSSWTPLEFLVETFHDWITGKNRPS SGSLIQVVTTEGRTELTPAYFTRTRPLEQKLISEEDLAANDILDYKDDDDKV </pre>
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	QDPR quinoid dihydropteridine reductase [Homo sapiens (human)]
Official Symbol	QDPR
Synonyms	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;
Gene ID	5860
mRNA Refseq	NM_000320
Protein Refseq	NP_000311
MIM	612676
UniProt ID	P09417

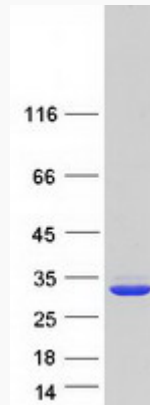
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SDS-PAGE



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