

Product datasheet for **TP317737L**

QDPR (NM_000320) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human quinoid dihydropteridine reductase (QDPR), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC217737 representing NM_000320
Red=Cloning site **Green**=Tags(s)

MAAAAAAGEARRVLVYGGRGALGSRCVQAFRARNWWWASVDVENEASASIIVKMTDSFTEQADQVTAE
VGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCGLMWWKQSIWTSTISSHLATKHLKEGGLLTLGAKAA
LDGTPGMIGYGMAGAVHQLCQSLAGKNSGMPPGAAAIAPVTLDTMPMNRKSMPEADFSSWTPLEFLVE
TFHDWITGKNRPSSGSLIQVVTTEGRTELPAYF

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 25.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_000311](#)

Locus ID: 5860

UniProt ID: [P09417](#), [A0A140VKA9](#)



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RefSeq Size: 1550

Cytogenetics: 4p15.32

RefSeq ORF: 732

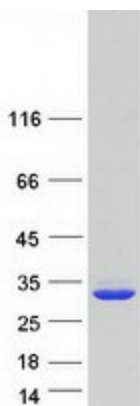
Synonyms: DHPR; HDHPR; PKU2; SDR33C1

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, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Folate biosynthesis, Metabolic pathways

Product images:



Coomassie blue staining of purified QDPR protein (Cat# [TP317737]). The protein was produced from HEK293T cells transfected with QDPR cDNA clone (Cat# [RC217737]) using MegaTran 2.0 (Cat# [TT210002]).