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Product datasheet for TP720718L

QDPR (NM_000320) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human quinoid dihydropteridine reductase (QDPR)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Ala2-Phe244
Tag:	C-His
Predicted MW:	26.8 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 μg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_000311
Locus ID:	5860
UniProt ID:	P09417, A0A140VKA9
RefSeq Size:	1550
Cytogenetics:	4p15.32
RefSeq ORF:	732
Synonyms:	DHPR; HDHPR; PKU2; SDR33C1

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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