

Quinoid Dihydropteridine Reductase Recombinant Protein | QDPR recombinant protein

Recombinant Human Quinoid Dihydropteridine Reductase

CATALOG #
AAA38932

HOST
E Coli

PRODUCT SYNONYMS

Quinoid Dihydropteridine Reductase; Recombinant Human Quinoid Dihydropteridine Reductase; QDPR Human; Quinoid Dihydropteridine Reductase Human Recombinant; Dihydropteridine reductase; HDHPR; Quinoid dihydropteridine reductase; QDPR; DHPR; PKU2; SDR33C1; QDPR recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	QDPR protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 2mM DTT. Sterile Filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMGS MAAAAAAGEA RRVLYVGGRG ALGSRVQAF RARNWWWVASV DVVENEESA SIIVKMTDSF TEQADQVTAE VGKLLGEEKV DAILCVAGGW AGGNAKSKSL FKNCGLMWKQ SIWTSTISSH LATHLKEGG LLTLAKAAA LDGTPGMIGY GMAKGAVHQL CQSLAGKNSG MPPGAAAIIV LPVTLDTMPN RKSMPPEADFS SWTPLEFLVE TFHDWITGKN RPSSGSLIQV VTTEGRTELT PAYF.
Sequence Length	244

ADDITIONAL INFORMATION

Related Product Information for QDPR recombinant protein	Description: QDPR Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 267 amino acids (1-244 a.a.) and having a molecular mass of 28.2kDa. QDPR is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: QDPR belongs to the short-chain dehydrogenases/reductase (SDR) family of enzymes. Operating as a homodimer, QDPR has an imperative role in the recycling of tetrahydrobiopterin (BH4), a vital cofactor for the hydroxylation of the aromatic amino acids (tryptophan, tyrosine and phenylalanine). More precisely, QDPR catalyzes the regeneration of BH4 from quinonoid dihydrobiopterin (qBH2), the product generated from the hydroxylation reactions. Mutations in the QDPR gene may lead to phenylketonuria II.
Product Categories/Family for QDPR recombinant protein	Enzymes; Reductase

NCBI AND UNIPROT INFORMATION

NCBI GI #	208973246
NCBI GeneID	5860
NCBI Accession #	NP_000311.2
NCBI GenBank Nucleotide #	NM_000320.2
UniProt Accession #	P09417 ; Q53F52 ; Q9H3M5 ; A8K158 ; B3KW71
Molecular Weight	22,408 Da
NCBI Official Full Name	dihydropteridine reductase
NCBI Official Synonym Full Names	quinoid dihydropteridine reductase

NCBI Official Symbol	QDPR
NCBI Official Synonym Symbols	DHPR; PKU2; SDR33C1
NCBI Protein Information	dihydropteridine reductase; 6,7-dihydropteridine reductase; HDHPR; short chain dehydrogenase/reductase family 33C, member 1
UniProt Protein Name	Dihydropteridine reductase
UniProt Gene Name	QDPR
UniProt Synonym Gene Names	DHPR
UniProt Entry Name	DHPR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/qdpr-recombinant-protein-e-coli/38932>