

QDPR recombinant protein

QDPR, 1-244aa, Human, His tag, E Coli

CATALOG # AAA48717	HOST E Coli	APPLICATIONS SDS-Page
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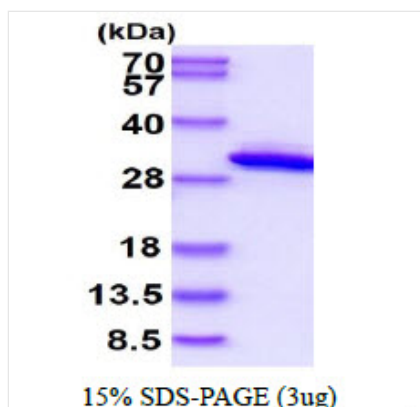
PRODUCT SYNONYMS

QDPR; 1-244aa; Human; His tag; E Coli; Quinoid dihydropteridine reductase.; DHP; FLJ42391; PKu2; SDR33C1; QDPR recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.5) containing 10% glycerol, 0.1M NaCl, 2mM DTT
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMAAAAAA GEARRVLVYG GRGALGSRV QAFRARNWWV ASVDVVENEE ASASIIVKMT DSFTEQADQV TAEVGKLLGE EKVDAILCVA GGWAGGNAKS KSLFKNCDLM WKQSIWTSTI SSHLATKHLK EGGLTLAGA KAALDGTGPM IGYGMAKGAV HQLCQSLAGK NSGMPPGAAA IAVLPVTLDT PMNRKSMPEA DFSSWTPLEF LVETFHDWIT GKNRPSSGSL IQVVTTEGRT ELTPAYF
Sequence Length	244
Applicable Applications for QDPR recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for QDPR recombinant protein	QDPR is a member of the short-chain dehydrogenases/reductase (SDR) family of enzymes. Functioning as a homodimer, QDPR plays an important role in the recycling of tetrahydrobiopterin (BH4), an essential cofactor for the hydroxylation of the aromatic amino acids (tryptophan, tyrosine and phenylalanine). More specifically, QDPR catalyzes the regeneration of BH4 from quinonoid dihydrobiopterin (qBH2), the product generated from the hydroxylation reactions. Mutations in the gene encoding QDPR can lead to phenylketonuria II. Recombinant human QDPR protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for QDPR recombinant protein	Metabolism
References	Lye LF., et al. (2002) J Biol Chem. 277 (41):38245-53.; Kalkanoqlu HS., et al. (2001) Prenat Diagn. 21 (10):868-70.

NCBI AND UNIPROT INFORMATION

NCBI GI #	208973246
NCBI GeneID	5860
NCBI Accession #	NP_000311
NCBI GenBank Nucleotide #	NM_000320.2
UniProt Accession #	P09417; Q53F52; Q9H3M5; A8K158; B3KW71
Molecular Weight	28.2 kDa (267aa), confirmed by MALDI-TOF
NCBI Official Full Name	dihydropteridine reductase isoform 1
NCBI Official Synonym Full Names	quinoid dihydropteridine reductase
NCBI Official Symbol	QDPR
NCBI Official Synonym Symbols	DHPR; PKU2; SDR33C1
NCBI Protein Information	dihydropteridine reductase
UniProt Protein Name	Dihydropteridine reductase
UniProt Gene Name	QDPR
UniProt Synonym Gene Names	DHPR; SDR33C1

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.