

QDPR, 1-244aa, Human, His tag, E.coli

Cat.NO.: TP03613

3th Edition

Synonyms:Quinoid dihydropteridine reductase, DHPR, FLJ42391, PKU2, SDR33C1.

Description: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.

Form:Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT.

Molecular Weight:28.2 kDa (267aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMAAAAAAGEARRVLVYGGRGALGSRCVQAFRARNWWWASVDVVENEEAS
ASIIVKMTDSFTEQADQVTAEVGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCMLMWKQSIWTSTISSHLATKHL
KEGGLLTLGAKAALDGTGPMIGYGMAGAVHQLCQSLAGKNSGMPPGAAAIAVLPVTLDTMNRKSMPEADFSS
WTPLEFLVETFDWITGKNRPSSGSLIQVVTTEGRTELTPAYF

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.