

Product datasheet for PH317737

QDPR (NM_000320) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	QDPR MS Standard C13 and N15-labeled recombinant protein (NP_000311)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217737
Predicted MW:	25.6 kDa
Protein Sequence:	<p>>RC217737 representing NM_000320</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MAAAAAAGEARRVLVYGGRGALGSRVQAFRRARNWVVASVDVVENEEASASIIIVKMTDSFTEQADQVTAE VGKLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCMLMWKQSIWTSTISSHLATKHLKEGGLTLGAKAA LDGTPGMIGYGMAKGAVHQLCQSLAGKNSGMPPGAAAIAPVTLDTPMNRKSMPEADFSSWTPLEFLVE TFHDWITGKNRPSSGSLIQVVTTEGRTELTAYF</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000311
RefSeq Size:	1550
RefSeq ORF:	732
Synonyms:	DHPR; HDHPR; PKU2; SDR33C1
Locus ID:	5860
UniProt ID:	P09417 , A0A140VKA9


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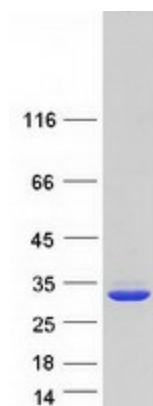
Cytogenetics: 4p15.32

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]).