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Datasheet for ABIN7318406 QDPR Protein (His tag)

Overview

Quantity:	50 µg
Target:	QDPR
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This QDPR protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Dihydropteridine Reductase/QDPR Protein (His Tag)
Sequence:	Ala2-Phe244
Characteristics:	Recombinant Human Dihydropteridine Reductase is produced by our Mammalian expression system and the target gene encoding Ala2-Phe244 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	QDPR
Alternative Name:	Dihydropteridine Reductase/QDPR (QDPR Products)
Background:	Background: Dihydropteridine reductase, also known as HDHPR and Quinoid dihydropteridine reductase, QDPR and DHPR, belongs to the short-chain dehydrogenases/reductases (SDR)

Target Details

family. QDPR exists as a homodimer. QDPR is part of the pathway that recycles a substance called tetrahydrobiopterin, also known as BH4 and tryptophan hydroxylases. The regeneration of this substance is critical for the proper processing of several other amino acids in the body. Tetrahydrobiopterin also helps produce certain chemicals in the brain called neurotransmitters, which transmit signals between nerve cells. Defects in QDPR are the cause of BH4-deficient hyperphenylalaninemia type C (HPABH4C) which is a rare autosomal recessive disorder and is lethal.

Synonym: Dihydropteridine Reductase, HDHPR, Quinoid Dihydropteridine Reductase, QDPR, DHPR

Molecular Weight: 26.8 kDa

UniProt: [P09417](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, pH 8.0.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.