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Datasheet for ABIN4370714 QDPR Protein (AA 1-244) (His tag)

Overview

Quantity:	50 µg
Target:	QDPR
Protein Characteristics:	AA 1-244
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 (C-6His)
Sequence:	AAAAAAGEAR RVLVYGGRGA LGSRCVQAFR ARNWWVASVD VVENEEASAS IIVKMTDSFT EQADQVTAEV GKLLGEEKVD AILCVAGGWA GGNAKSKSLF KNCDLMWKQS IWTSTISSHL ATKHLKEGGL LTLAGAKAAL DGTPGMIGYG MAKGAVHQLC QSLAGKNSGM PPGAAAIAVL PVTLDTPMNR KSMPEADFSS WTPLEFLVET FHDWITGKNR PSSGSLIQVV TTEGRTELTP AYFVDHHHHH H
Characteristics:	Recombinant Human Dihydropteridine Reductase/QDPR is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Phe244) of Human QDPR fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	QDPR
Alternative Name:	QDPR (QDPR Products)
Sub Type:	Fusionprotein
Background:	<p>Dihydropteridine reductase, also known as HDHPR and Quinoid dihydropteridine reductase, QDPR and DHPR, belongs to the short-chain dehydrogenases/reductases (SDR) 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.</p> <p>Alternative Names: Dihydropteridine Reductase, HDHPR, Quinoid Dihydropteridine Reductase, QDPR, DHPR</p>
Molecular Weight:	26.8 kDa
UniProt:	P09417

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM TrisHCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>

Handling

Expiry Date: 3 months