

## 32-7678: Recombinant Human Dihydropteridine Reductase/QDPR (C-6His)

**Gene :** QDPR  
**Gene ID :** 5860  
**Uniprot ID :** P09417

### Description

Source: Human Cells.  
MW :26.8kD.

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. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl,pH8.0.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** AAAAAAGEARRVLVYGGRGALGSRVQAFRRNWWVASVDVVENEEASASIVKMTDSFTEQADQVTAEVG  
KLLGEEKVDAILCVAGGWAGGNAKSKSLFKNCDLMWKQSIWTSTISSHLATKHLKEGGLLTLAGAKAALDGRP  
GMIGYGMAGAVHQLCQSLAGKNSGMPPGAAIAVLPVTLDTMNRKSMPEADFSSWTPLEFLVETFHDWIT  
GKNRPSSGSLIQVVTEGRTELTPAYFVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.