# Dihydropteridine reductase from man and the rat.

University of Aston. Department of Chemistry - Human/Mouse/Rat QDPR Antibody AF8038: R&D Systems



Description: -

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Notes: Thesis (PhD) - University of Aston in Birmingham, 1985.

This edition was published in 1985



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Tags: #Qdpr

#### RCSB PDB

Silke Leimkühler, in , 2010 7.

#### **ENZYME**

Biochemical and Biophysical Research Communications 1975, 67 1, 240-247. These are stable identifiers and should be used to cite UniProtKB entries. Nevertheless, an active site pocket involving the Tyr-X-X-X-Lys motif, typical for short-chain dehydrogenases, was proposed to participate in proton donation.

#### Qdpr

In addition, a reduction in the activity of quinoid dihydropteridine reductase may cause to build up abnormally in certain parts of the brain, resulting in damage to nerve cells. The incidence of classic PKU is about 1 in 10,000—20,000 live births and exhibits considerable geographic variation the incidence in Ireland is 1 in 4000, whereas the condition is rare among blacks and Asians. Access to this database is free of charge.

#### Human/Mouse/Rat QDPR Antibody AF8038: R&D Systems

Because phenylalanine accumulates in tissues and plasma hyperphenylalaninemia, it is metabolized by alternative pathways, and abnormal amounts of phenylpyruvate appear in urine. DHPR salvages the unstable quinonoid dihydrobiopterin, converting it back to tetrahydrobiopterin. The following resources provide information relating to diagnosis and testing for this condition.

### Th protein (Rattus norvegicus)

The overall enzyme dimensions are  $34 \text{ Å} \times 50 \text{ Å} \times 73 \text{ Å}$ . Article Views are the COUNTER-compliant sum of full text article downloads since November 2008 both PDF and HTML across all institutions and individuals. Since dihydropteridine reductase is required in vivo for the hydroxylation of tyrosine, the inhibition of this enzyme by apomorphine may represent one of several mechanisms by which apomorphine inhibits

catecholamine synthesis.

## Dihydropteridine Reductase

The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. QDPR is widely expressed, and found in cells such as fibroblasts, neurons, hepatocytes and lymphocytes.

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