

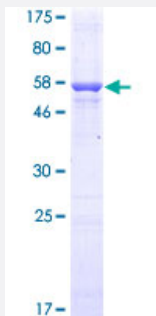
Full-Length

## QPRT (Human) Recombinant Protein (P01)

Catalog # H00023475-P01

Size 25 ug, 10 ug

### Applications



### Specification

#### Product Description

Human QPRT full-length ORF ( AAH05060.1, 1 a.a. - 297 a.a.) recombinant protein with GST-tag at N-terminal.

#### Sequence

MDAEG LALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGILAGQPFFDAIFT  
QLNCQVSWFLPEGSKLVPARVAEVRGPAHCLLLGERVALNTLARCSGASAAAAAVEAARGAG  
WTGHVAGTRKTTTPGFRLVEKYGLLVGGAASHRYDLGGLVMVKDNHVVAAGGVEKAVRAARQAA  
DFALKVEVECSSLQEA VQAAEAGADLVLLDNFKPEELHPTATVLKAQFPSVAVEASGGITLDNLP  
QFCGPHIDVISMGMLTQAAPALDFSLKLFKEVAPVPKIH

#### Host

Wheat Germ (in vitro)

#### Theoretical MW (kDa)

58.3

#### Interspecies Antigen Sequence

Mouse (84); Rat (82)

#### Preparation Method

[in vitro wheat germ expression system](#)

#### Purification

Glutathione Sepharose 4 Fast Flow

#### Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

#### Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction**

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note**

Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — QPRT

**Entrez GeneID**[23475](#)**GeneBank Accession#**[BC005060.1](#)**Protein Accession#**[AAH05060.1](#)**Gene Name**

QPRT

**Gene Alias**

QPRTase

**Gene Description**

quinolinate phosphoribosyltransferase

**Omim ID**[606248](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a key enzyme in catabolism of quinolinate, an intermediate in the tryptophan-nicotinamide adenine dinucleotide pathway. Quinolinate acts as a most potent endogenous excitotoxin to neurons. Elevation of quinolinate levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease. [provided by RefSeq]

**Other Designations**

nicotinate-nucleotide pyrophosphorylase (carboxylating)

## Pathway

- [Biosynthesis of alkaloids derived from ornithine](#)
- [Metabolic pathways](#)
- [Nicotinate and nicotinamide metabolism](#)