

## 32-7235: Recombinant Human Quinolate Phosphoribosyltransferase/QPRTase (N-6His)

**Gene :** QPRT  
**Gene ID :** 23475  
**Uniprot ID :** Q15274

### Description

Source: E.coli.  
MW :33kD.

Recombinant Human QPRTase is produced by our E.coli expression system and the target gene encoding Met1-His297 is expressed with a 6His tag at the N-terminus. Nicotinate-Nucleotide Pyrophosphorylase (QPRT) belongs to the nadC/modD family. QPRT plays an important role in catabolism of quinolate which acts as a potent endogenous exitotoxin to neurons. In addition, QPRT serves as an intermediate in the Tryptophan-Nicotinamide Adenine Dinucleotide pathway. QPRT participates in some pathways including Cofactor biosynthesis, NAD(+) biosynthesis and the Nicotinate D-Ribonucleotide from Quinolate. In addition, QPRT is involved in the catabolism of Quinolinic Acid (QA). The activity toward QA is slightly repressed by phosphoribosylpyrophosphate (PRPP) in both a competitive and a non-competitive manner.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0 .  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMDAEG LALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSP  
GILAGQPFDAIFTQLNCQVSWFLPEGSKLVPVARVAEVRGPAHCLLLGERVALNTLARCSGIASAAAAAVEAA  
RGAGWTGHVAGTRKTTPGFRLVEKYGLLVGGAASHRYDLGGLVMVKDNHVVAAAGGVEKAVRAARQAADFAL  
KVEVECSSLQEA VQAAEAGADLVLLDNFKPEELHPTATVLKAQFPSVAVEASGGITLDNLPQFCGPHIDVISMG  
MLTQAAPALDFSLKLFKEVAPVPKIH

### Application Note

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