

## QPRTase Protein, Human, Recombinant (His)

### General Information

Synonyms:	QPRTase; QAPRTase; Nicotinate-Nucleotide Pyrophosphorylase [Carboxylating]; QPRT; Quinolinate Phosphoribosyltransferase [Decarboxylating]
Protein Construction:	Met1-His297
Species:	Human
Expression Host:	E. coli
Accession:	AAH05060.1
Molecular Weight:	34 KDa (reducing condition)
AA Sequence:	Met1-His297

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Nicotinate-Nucleotide Pyrophosphorylase (QPRT) belongs to the nadC/modD family. QPRT plays an important role in catabolism of quinolinate 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 Quinolinate. 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.

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