



Recombinant Protein Technical Manual

Recombinant Human QPRT/QPRTase Protein (His Tag)

RPES3590

Product Data:

Product SKU: RPES3590

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q15274

Protein Information:

Molecular Mass: 33.0 kDa

AP Molecular Mass: 34 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Nicotinate-Nucleotide Pyrophosphorylase [Carboxylating]; Quinolate Phosphoribosyltransferase [Decarboxylating]; QAPRTase; QPRTase; QPRT

Immunogen Information:

Sequence: Met 1-His297

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 excitotoxin 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.