

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 LALLLPVTLAALVDSWLREDCPGLNYAALVSGAGPSQA
ALWAKSPGILAGQPFFDAIFTQLNCQVSWFLPEGSKLPVARVAEVRGPAHCLLLGERVALNTLAR
CSGIAAAAAAVEAARGAGWTGHVAGTRKTTPGFRLVEKYGLLVGGAASHRYDLGGLVMVKDNH
VVAAGGVEKAVRAARQAADFALKVEECSSLQEAVQAAEAGADLVLLDNFKPEELHPTATVLKAQF
PSVAVEASGGITLDNLPQFCGPHIDVISMGMILTQAAPALDFSLKLFKEVAPVPKIH

Application Note

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