

Recombinant Human Quinolinate Phosphoribosyltransferase, His-tagged

Cat. No. QPRT-2814H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant human QPRT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW =32.9 kDa (317aa), confirmed by MALDI-TOF.

Species

Human

Source

E.coli

Description

Quinolinate phosphoribosyltransferase, also known as QPRT, is a major enzyme in the catabolism of quinolinate. It is an intermediate in the tryptophannicotinamide adenine dinucleotide (NAD) pathway, leading to the production of nicotinic acid, carbon dioxide and pyrophosphate. Elevation of QPRT levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer"s disease, and Huntington"s disease.

Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MDAEGLALLL PPVTLAALVD SWLREDCPGL
 NYAALVSGAG PSQAALWAKS PGVLAGQPFF DAIFTQLNCQ VSWFLPEGSK
 LVPVARVAEV RGAHCLLLG ERVALNTLAR CSGIASAAAA AVEAARGAGW
 TGHVAGTRKT TPGFRLVEKY GLLVGGAASH RYDLGGLVMV KDNHVVAAGG
 VEKAVRAARQ AADFALKVEV ECSSLQEAVQ AAEAGADLVL LDNFKPEELH
 PTATVLKAQF PSVAVEASGG ITLDNLPQFC GPHIDVISMG MLTQAAPALD
 FSLKLFAKEV APVPKIH

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Purity	> 95% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Concentration	1mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	QPRT quinolinate phosphoribosyltransferase [Homo sapiens]
Synonyms	QPRT; quinolinate phosphoribosyltransferase; QPRTase; nicotinate-nucleotide pyrophosphorylase [carboxylating]; QAPRTase; nicotinate-nucleotide pyrophosphorylase (carboxylating); EC 2.4.2.19; nicotinate-nucleotide pyrophosphorylase
Gene ID	23475
mRNA Refseq	NM_014298
Protein Refseq	NP_055113
MIM	606248
UniProt ID	Q15274
Chromosome Location	16p11.2

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Pathway	Metabolic pathways; Nicotinate and nicotinamide metabolism
Function	nicotinate-nucleotide diphosphorylase (carboxylating) activity; nicotinate-nucleotide diphosphorylase (carboxylating) activity; protein homodimerization activity; transferase activity, transferring glycosyl groups

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