

AR09644PU-L

Human QPRT (1-297, His-tag) - Purified

Alternate names:

Nicotinate-nucleotide pyrophosphorylase [carboxylating], QAPRTase, QPRTase, quinolinate phosphoribosyltransferase

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q15274](#)

NCBI:

[NP_055113](#)

GeneID:

[23475](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Description:

Recombinant Human QPRT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

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

Molecular weight: 32.9 kDa (317aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

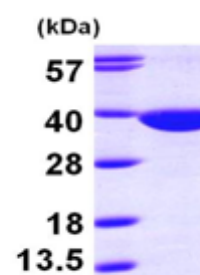
Shelf life: one year from despatch.

General Readings:

1. Delaney J., et al. (2005) Arch Toxicol. 79(2):208-223.
2. Eads JC, Ozturk D, Wexler TB, Grubmeyer C, Sacchettini JC. A new function for a common fold: the crystal structure of quinolinic acid phosphoribosyltransferase. Structure. 1997 Jan 15;5(1):47-58. PubMed PMID: 9016724.

Pictures:

Recombinant human QPRT, 1- 297 aa, His-tagged (Cat.No. AR09644PU)



15% SDS-PAGE (3ug)