

Recombinant human QPRT protein

Catalog Number: ATGP0706

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-297aa

UniProt No.

Q15274

NCBI Accession No.

NP_055113

Alternative Names

Nicotinate nucleotide pyrophosphorylase (carboxylating), Nicotinate nucleotide pyrophosphorylase carboxylating, Quinolinate phosphoribosyltransferase, QPRTase, QAPRTase

PRODUCT SPECIFICATION

Molecular Weight

32.9 kDa (317aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human QPRT protein, fused to His-tag at N-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH 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 FSLKLFKEV APVPKIH

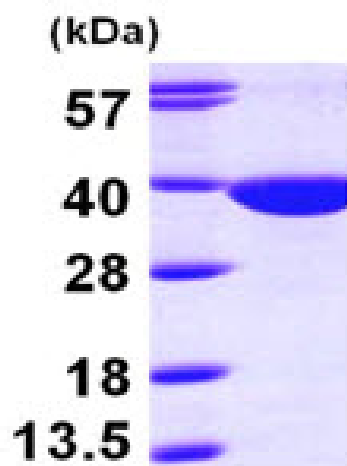
General References

Delaney J., et al. (2005) Arch Toxicol. 79(2):208-223.

Eads J C., et al. (1997) Structure. 5:47-58.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)