

QPRT, 1-297aa, Human, His tag, E.coli

Cat.NO.: TP03615

3th Edition

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

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.

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

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

Sequences:

MGSSHHHHHSSGLVPRGSHMDAEG LALLPPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGVL
AGQPFDAIFTQLNCQVSWFLPEGSKLVPVARVAEVRGPAHCLLLGERVALNTLARCSGIASAAAAA VE AARGAGW
TGHVAGTRKTTTPGFRLVEKYGLLVGGAASHRYDLGGLVMVKDNHVVAAGGVEKAVRAARQAADFALKVEVECSSL
QEA VQAAEAGADLVLLDNFKPEELHPTATVLKAQFPSVAVEASGGITLDNLPQFCGPHIDVISMGMLTQAAPALDFS
LKLFAKEVAPVPKIH

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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.