

## Recombinant Human QPRT, His-tagged

Cat. No. QPRT-30232TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human QPRT with a N terminal His tag; 317aa inclusive of tag, 32.9 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	297 amino acids
<b>Description</b>	This gene encodes a key enzyme in catabolism of quinolinate, an intermediate in the tryptophan-nicotinamide adenine dinucleotide pathway. Quinolinate acts as a most potent endogenous exitotoxin to neurons. Elevation of quinolinate levels in the brain has been linked to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimers disease, and Huntingtons disease.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	32.900kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: 0% NoneConstituents: 10% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0

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<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSHMDAEG LALLLPPVTLAALVDSWLREDCPGLNYAAL VSGAGPSQAALWAKSPGVLGQPFFDAIFTQLNCQVSWFLPEGSKLVPVARVAEVR GPAHCLLLGERVALNLTARC SGIASAAAAAVEAARGAGWTGHVAGTRKTT PGFRLV EKYGLLVGGAASHRYDLGGLVMVKDNHVVAAGGVEKAVRAARQAADFALKVEVEC SSLQEAVQAAEAGADLVLLDNFKPEELHPTATVLKAQFPSVAVEASGGITLDNLPQF CGPHIDVISMGMLTQAAPALDFSLKLF AKEVAPVPKIH
<b>Sequence Similarities</b>	Belongs to the nadC/modD family.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	QPRT quinolinate phosphoribosyltransferase [ Homo sapiens ]
<b>Official Symbol</b>	QPRT
<b>Synonyms</b>	QPRT; quinolinate phosphoribosyltransferase; nicotinate-nucleotide pyrophosphorylase [carboxylating]; nicotinate nucleotide pyrophosphorylase (carboxylating); QPRTase;
<b>Gene ID</b>	23475
<b>mRNA Refseq</b>	NM_014298
<b>Protein Refseq</b>	NP_055113
<b>MIM</b>	606248

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<b>Uniprot ID</b>	Q15274
<b>Chromosome Location</b>	16p11.2
<b>Pathway</b>	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem;
<b>Function</b>	nicotinate-nucleotide diphosphorylase (carboxylating) activity; protein homodimerization activity;

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