QPRT Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	QPRT, Lysate
Full Product Name	Human QPRT Protein Lysate
Product Gene Name	QPRT lysate
Product Synonym Names	QPRT; HEL-S-90n; QPRTase
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	30,846 Da
OMIM	606248
3D Structure	ModBase 3D Structure for Q15274
Related Product Information for QPRT lysate	Human QPRT Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of QPRT lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for QPRT purchase	MBS8418143 is a lysate targeting QPRT. Also known as Human QPRT Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for QPRT. It may not necessarily be applicable to this product.

NCBI GI #	45269149
NCBI GeneID	23475
NCBI Accession #	NP_055113
UniProt Primary Accession #	Q15274
UniProt Secondary Accession #	Q53XW7; Q96G22; Q9BSG6
UniProt Related Accession #	Q15274
GenBank Nucleotide #	NM_014298
NCBI Official Full Name	nicotinate-nucleotide pyrophosphorylase
NCBI Official Synonym Full Names	quinolinate phosphoribosyltransferase
NCBI Official Symbol	QPRT
NCBI Official Synonym Symbols	QPRTase; HEL-S-90n
UniProt Protein Name	Nicotinate-nucleotide pyrophosphorylase [carboxylating]
UniProt Synonym Protein Names	Quinolinate phosphoribosyltransferase [decarboxylating]; QAPRTase; QPRTase

Protein Family	Nicotinate-nucleotide pyrophosphorylase
UniProt Gene Name	QPRT
UniProt Synonym Gene Names	QAPRTase; QPRTase
UniProt Entry Name	NADC_HUMAN
NCBI Protein Information	nicotinate-nucleotide pyrophosphorylase [carboxylating]
NCBI Summary for QPRT	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, Alzheimer's disease, and Huntington's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]
UniProt Comments for QPRT	QPRT: Involved in the catabolism of quinolinic acid (QA). Belongs to the NadC/ModD family. Protein type: Transferase; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide; EC 2.4.2.19 Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cytoplasm; cytosol Molecular Function: protein homodimerization activity; nicotinate-nucleotide diphosphorylase (carboxylating) activity Biological Process: NAD biosynthetic process; vitamin metabolic process; NAD metabolic process; water-soluble vitamin metabolic process; protein oligomerization
Research Articles on QPRT	**1.** WT1 knock-down gave a corresponding decrease in QPRT gene and protein expression. Chromatin-immunoprecipitation revealed WT1 binding to a conserved site in the first intron of the QPRT gene.
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