
Product Data Sheet

Product Name: QPRT Human
 Cat. No.: GP22213
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Quinolinate phosphoribosyltransferase ; QPRTase; QAPRTase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MDAEGLALLL PPVTLAALVD SWLREDCPGL NYAALVSGAG PSQAALWAKS PGVLAGQPFF DAIFTQLNCQ VSWFLPEGSK LVPVARVAEV RGAHCLLLG ERVALNTLAR CSGIASAAAA AVEAARGAGW TGHVAGTRKT TPGFRLVEKY GLLVGAASH RYDLGGLVMV KDNHVVAAGG VEKAVRAARQ AADFALKVEV ECSSLQEAVQ AAEAGADLVL LDNFKPEELH PTATVLKAQF PSVAVEASGG ITLDNLPQFC GPHIDVISMV MLTQAAPALD FSLKLFKEV APVPKIH.		
Formulation	The QPRT solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT and 10% glycerol.		

Introduction

QPRT is a key enzyme in the catabolism of quinolinate. QPRT is in between the tryptophannicotinamide adenine dinucleotide (NAD) pathway, resulting in the production of nicotinic acid, carbon dioxide and pyrophosphate. Rise of QPRT levels in the brain is related to the pathogenesis of neurodegenerative disorders such as epilepsy, Alzheimer's disease, and Huntington's disease.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

QPRT Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 317 amino acids (1-297 a.a.) and having a molecular mass of 32.9 kDa.

Caution: Product has not been fully validated for medical applications. For research use only.

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The QPRT is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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