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# **NAPRT1 Protein (His tag)**



#### Overview

Quantity:	50 μg
Target:	NAPRT1 (NAPRT)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This NAPRT1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

#### **Product Details**

Cross-Reactivity:	Human
Characteristics:	Human NAPRTase is fused at the N-terminus to a His-tag.
Purity:	>98 % (SDS-PAGE)

### **Target Details**

Target:	NAPRT1 (NAPRT)
Alternative Name:	NAPRTase (NAPRT Products)
Background:	Human nicotinate phosphoribosyltransferase (NAPRTase) is localized in the cytoplasm and is
	involved in biological processes such as NAD biosynthetic and metabolic processes, nicotinamide metabolic process, nicotinate nucleotide salvage, response to oxidative stress
	and water-soluble vitamin metabolic process. It functions by catalyzing the conversion of

### **Target Details**

	nicotinic acid (NA) to NA mononucleotide (NaMN) and is essential for NA to increase cellular
	NAD levels and prevent oxidative stress of the cells. It is a crucial factor in the NAD+
	biosynthesis pathway. Catalytic activity: Beta-nicotinate D-ribonucleotide + diphosphate =
	nicotinate + 5-phospho-alpha-D-ribose 1-diphosphate.
Molecular Weight:	~58.0kDa
UniProt:	Q6XQN6

## **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	~0.27 U/mg protein. One unit is defined as the amount of enzyme that synthesizes 1µmol
	nicotinic acid mononucleotide (NaMN) per min.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	In 50 mM HEPES/KOH pH 7.5 containing 300 mM potassium chloride and 10 mM DTT.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Short Term Storage: -20°C  Long Term Storage: -80°C  Stable for at least 6 months after receipt when stored at -80°C.
Expiry Date:	6 months