Datasheet for ABIN2745752

# NAPRT1 Protein (His tag)

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## Overview

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| 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

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| Purpose: | NAPRTase (human) (rec.) (His) |
| Cross-Reactivity: | Human |
| Characteristics: | Human NAPRTase is fused at the N-terminus to a His-tag. |
| Purity: | >98 % (SDS-PAGE) |
| Biological Activity Comment: | 0.043µmol/min/mg: hNAPRTase activity was measured by a custom coupled enzymatic assay which uses a secondary enzyme for the quantification of the PRPP consumed by hNAPRTase. The reaction buffer contained 50 mM Hepes pH 7.5, 500 µM PRPP, 100 µM nicotinic acid, 20 mM MgCl2, 2.5 mM DTT and hNAPRTase at 5 µM, 25°C, spectrophotometrical monitoring. |

## Target Details

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| Target: | NAPRT1 (NAPRT) |

## Target Details

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| Alternative Name: | NAPRTase (NAPRT Products) |
| Background: | Nicotinate Phosphoribosyltransferase, FHA-HIT-interacting Protein, FHIP, EC 2.4.2.11 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 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

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | Lot specific |
| Buffer: | In 50 mM HEPES/KOH pH 7.5 containing 300 mM potassium chloride and 10 mM DTT. |
| Handling Advice: | After opening, prepare aliquots and store at -80 °C. Avoid freeze/thaw cycles. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Short Term Storage: -20°C<br>Long Term Storage: -80°C<br>Use & Stability: Stable for at least 6 months after receipt when stored at -80°C. |
| Expiry Date: | 6 months |