Datasheet for ABIN1096819

# HPRT1 Protein (AA 2-218) (His tag)

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## Overview

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|---|---|
| Quantity: | 50 µg |
| Target: | HPRT1 |
| Protein Characteristics: | AA 2-218 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HPRT1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant Human HGPRT/HPRT1 (N-6His) |
| Sequence: | MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE DLERVFIPHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLLSLV RQYNPKMVKV ASLLVKRTPR SVGYKPDFVG FEIPDKFVVG YALDYNEYFR DLNHVCVISE TGKAKYKAVE HHHHHH |
| Characteristics: | Recombinant Human Hypoxanthine-Guanine Phosphoribosyltransferase/HGPRT is produced by our E. coli expression system. The target protein is expressed with sequence (Ala2-Ala218) of Human HPRT1 fused with a 6His tag at the N-terminus. |
| Purity: | > 95 % as determined by reducing SDS-PAGE. |
| Sterility: | 0.2 µm filtered |
| Endotoxin Level: | Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test |

 

## Target Details

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| Target: | HPRT1 |
| Alternative Name: | HGPRTase (HPRT1 Products) |
| Sub Type: | Fusionprotein |
| Background: | Hypoxanthine-Guanine Phosphoribosyltransferase (HGPRT) has an important role in the generation of purine nucleotides through the purine salvage pathway. HPRT1 functions to salvage purines from degraded DNA to renewed purine synthesis, it acts as a catalyst in the reaction between guanine and phosphoribosyl pyrophosphate to form GMP.<br>Alternative Names: Hypoxanthine-Guanine Phosphoribosyltransferase, HGPRT, HGPRTase, HPRT1, HPRT |
| Molecular Weight: | 27.79 kDa |
| UniProt: | P00492 |
| Pathways: | Ribonucleoside Biosynthetic Process |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Reconstitution: | It is not recommended to reconstitute to a concentration less than 100 µg/mL.<br>Dissolve the lyophilized protein in ddH2O.<br>Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Buffer: | Supplied as a 0.2 µm filtered solution of 20 mM Tris, 250 mM NaCl, 2 mM EDTA, 30 % Glycerol, pH 8.0. |
| Handling Advice: | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. |
| Storage: | -80 °C |
| Storage Comment: | Store at < -20°C, stable for 6 months after receipt.<br>Please minimize freeze-thaw cycles. |
| Expiry Date: | 6 months |