

**HPRT1, 1-218aa, Human, His tag, E.coli**

**Cat.NO.: TP02497**

---

3th Edition

**Synonyms:**Hypoxanthine-guanine phosphoribosyltransferase, HGPRT, HGPRTase, HPRT

**Description:**Hypoxanthine-guanine phosphoribosyltransferase, also known as HPRT1 has a central role in the generation of purine nucleotides through the purine salvage pathway. The enzyme primarily functions to salvage purines from degraded DNA to renewed purine synthesis. In this role, it acts as a catalyst in the reaction between guanine and phosphoribosyl pyrophosphate to form GMP.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing, 20% glycerol

**Molecular Weight:**26.7 kDa (238aa), confirmed by MALDI-TOF

**Sequences:**

```
MGSSHHHHHHSSGLVPRGSHMATRSPGVVISDDEPGYDLDFCIPNHYAEDLERVFIPHGLIMDRTERLARDVMKE
MGGHHIVALCVLKGGYKFFADLLDYIKALNRNSDRSIPMTVDFIRLKSVCNDQSTGDIKVI GGDDLSTLTGKNVLIVED
IIDTGKTMQTL LSLVRQYNPKMVKVASLLVKRTPRSVGYKPDFVGF EIPDKFVVG YALDYNEYFRDLNHVCV ISETG
KAKYKA
```

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.