

## 32-6809: HPRT1 Human, Active

<b>Application :</b>	Functional Assay
<b>Alternative Name :</b>	Hypoxanthine Phosphoribosyltransferase 1, EC 2.4.2.8, HGPRTase, HGPRT, HPRT , Hypoxanthine-Guanine Phosphoribosyltransferase 1, Hypoxanthine-Guanine Phosphoribosyltransferase, Testicular Tissue Protein Li 89, Lesch-Nyhan Syndrome, HPRT1.

### Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

HPRT1 has a main part in the generation of purine nucleotides through the purine salvage pathway. HPRT1 primarily functions to salvage purines from degraded DNA to renewed purine synthesis. Therefore, it performs as a catalyst in the reaction between guanine and phosphoribosyl pyrophosphate to form GMP.

HPRT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 238 amino acids (1-218 a.a) and having a molecular mass of 26.7kDa. HPRT1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Product Info

<b>Amount :</b>	2 µg / 10 µg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	HPRT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 20% glycerol.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHAYE DLERVFIPHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLLSLV RQYNPKMVKV

### Application Note

Specific activity is > 15 units/mg and is defined as the amount of enzyme that catalyze the formation of 1 umole of guanosine 5'AMP-monophosphate (GMP) per minute from guanine and phosphoribosyl pyrophosphate at pH 7.5 at 37C.