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# 32-6809: HPRT1 Human, Active

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| **Application :** | Functional Assay |
| **Alternative Name :** | 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

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| **Amount :** | 2 µg / 10 µg |
| **Purification :** | Greater than 95.0% as determined by SDS-PAGE. |
| **Content :** | HPRT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 20% glycerol. |
| **Storage condition :** | 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. |
| **Amino Acid :** | MGSSHHHHHH SSGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE 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 5Ã□â□□-monophosphate (GMP) per minute from guanine and phosphoribosyl pyrophosphate at pH 7.5 at 37C.

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