
Product Data Sheet

Product Name: HPRT1 Human, Active

Cat. No.: GP21808

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MATRSPGVVI SDDEPGYDLD LFCIPNHYAE DLERVFIPHG LIMDRTERLA RDVMKEMGGH HIVALCVLKG GYKFFADLLD YIKALNRNSD RSIPMTVDFI RLKSYCNDQS TGDIKVIGGD DLSTLTGKNV LIVEDIIDTG KTMQTLLSLV RQYNPKMVKV		
Formulation	HPRT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0) and 20% glycerol.		

Introduction

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.

Biological Activity

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

Stability

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%

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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