

# HPRT1 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02246

## Basic Information

**Catalog No.**

RM02246

**Category**

Cell Line

**Parental Cell line**

293T

**Genotype**

Knockout

## Gene Information

**Gene Symbol**

HPRT1

**Species**

Human

**Gene ID**

3251

**Swiss Prot**

P00492

**Synonyms**

HGPR1; HPRT

## Contact

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## Background

The protein encoded by this gene is a transferase, which catalyzes conversion of hypoxanthine to inosine monophosphate and guanine to guanosine monophosphate via transfer of the 5-phosphoribosyl group from 5-phosphoribosyl 1-pyrophosphate. This enzyme plays a central role in the generation of purine nucleotides through the purine salvage pathway. Mutations in this gene result in Lesch-Nyhan syndrome or gout.[provided by RefSeq, Jun 2009]

## Product Information

**Description**

HPRT1 Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.

Allele-1:exon1 was deleted

Allele-2:exon1 was deleted

Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

**Packaging**

1 vial parental cell line and 1 vial knockout cell line

**Shipping Conditions**

Dry ice

**Amount**

1~5x10<sup>6</sup> cells/vial

**Storage**

Stored in liquid nitrogen for a long time less than -130°C. Minimizing freeze-thaw cycles.

**Protocol**

Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37°C with 5% CO<sub>2</sub> condition.

1. Thaw the vial in 37°C water bath, and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37°C incubator with 5% CO<sub>2</sub>.
7. A subcultivation ratio of 1:2-1:4 is recommended.

## Sequencing data

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WT CGCGCCGGCCGGCT\*\*\*\*\*AGTGCGGGCTCGGG  
Mut CGCGCCGGCCGGCT\*\*\*Deletion\*\*\*AGTGCGGGCTCGGG  
Allele-1: exon1 was deleted  
WT CGCGCCGGCCGGCT\*\*\*\*\*AGTGCGGGCTCGGG  
Mut CGCGCCGGCCGGCT\*\*\*Deletion\*\*\*AGTGCGGGCTCGGG  
Allele-2: exon1 was deleted

Genome sequence analysis of PCR products from parental (WT) and HPRT1 knockout (KO) 293T cells, using sanger sequencing.