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# MTNR1A Knockout 293T Cell Lysate, Homozygous

**Catalog No.: RM02793**

## Basic Information

**Catalog No.**
RM02793

**Category**
Cell Lysate

**Parental Cell line**
293T

**Genotype**
Knockout

## Background

This gene encodes one of two high affinity forms of a receptor for melatonin, the primary hormone secreted by the pineal gland. This receptor is a G-protein coupled, 7-transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by day length. The receptor is an integral membrane protein that is readily detectable and localized to two specific regions of the brain. The hypothalamic suprachiasmatic nucleus appears to be involved in circadian rhythm while the hypophysial pars tuberalis may be responsible for the reproductive effects of melatonin.

## Gene Information

**Gene Symbol**
MTNR1A

**Species**
Human

**Gene ID**
4543

**Swiss Prot**
P48039

**Synonyms**
MT1; MEL-1A-R; MTNR1A

## Product Information

**Description**
MTNR1A Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:85bp deletion in exon2
Allele-2:85bp deletion in exon2
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 Lysate and 1 vial knockout cell Lysate

**Shipping Conditions**
4℃

**Amount**
50μL, 2μg/μL.

**Storage**
Lysate is stable for 12 months when stored at -20℃. Minimizing freeze-thaw cycles.

**Protocol**
To be used as WB control. Lysate is supplied in 1× SDS sample buffer (2% SDS, 60 mM Tris-HCl pH 6.8, 10% Glycerol, 0.02% Bromophenol blue, 60 mM beta-mercaptoethanol). Lysate should be boiled for 3 - 5 minutes before loading onto gel.

## Contact


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## Sequencing data

```
WT    TTATCCGTACCCGT**********CATCGGCTCCATAT
Mut   TTATCCGTACCCGT***Deletion***CATCGGCTCCATAT
Allele-1:   85bp deletion in exon2

WT    TTATCCGTACCCGT**********CATCGGCTCCATAT
Mut   TTATCCGTACCCGT***Deletion***CATCGGCTCCATAT
Allele-2:   85bp deletion in exon2
```

Genome sequence analysis of PCR products from parental (WT) and MTNR1A knockout (KO) 293T cells, using sanger sequencing.