

IGF1 Knockdown HeLa Cell Line, Heterozygous

Catalog No.: RM02539

Basic Information

Catalog No.

RM02539

Category

Cell Line

Parental Cell line

HeLa

Genotype

Knockdown

Gene Information

Gene Symbol

IGF1

Species

Human

Gene ID

3479

Swiss Prot

P05019

Synonyms

IGF-I; IGF1; MGF

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Background

The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is processed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cause of insulin-like growth factor I deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate mature protein. [provided by RefSeq, Sep 2015]

Product Information

Description

IGF1 Knockdown HeLa Cell Line is engineered from HeLa cell line with Gene-Editing technology.

Allele-1:71bp deletion in exon2

Allele-2:WT

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

1~5x10⁶ 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% CO₂ 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% CO₂.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT CACCATGTCCTCCT*****TGCGGGGCTGAGCT
Mut CACCATGTCCTCCT***Deletion***TGCGGGGCTGAGCT
Allele-1: 71bp deletion in exon2

WT CACCATGTCCTCCT*****TGCGGGGCTGAGCT
Mut CACCATGTCCTCCT*****TGCGGGGCTGAGCT
Allele-2: WT

Genome sequence analysis of PCR products from parental (WT) and IGF1 Knockdown (KD) HeLa cells, using sanger sequencing.