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FSH Knockout 293T Cell Line, Homozygous

Catalog No.: RM02541

Basic Information

Catalog No.
RM02541

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
FSH

Species
Human

Gene ID
2488

Swiss Prot
P01225

Synonyms
HH24

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Background

The pituitary glycoprotein hormone family includes follicle-stimulating hormone, luteinizing hormone, chorionic gonadotropin, and thyroid-stimulating hormone. All of these glycoproteins consist of an identical alpha subunit and a hormone-specific beta subunit. This gene encodes the beta subunit of follicle-stimulating hormone. In conjunction with luteinizing hormone, follicle-stimulating hormone induces egg and sperm production. Alternative splicing results in two transcript variants encoding the same protein. [provided by RefSeq, Jul 2008]

Product Information

Description
FSH Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.
Allele-1:158bp deletion in exon1
Allele-2:158bp deletion in exon1
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
1~5x10^6 cells/vial

Storage
Stored in liquid nitrogen for a long time less than -130℃. 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℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ 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℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

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WT    TCCCAGACCAGGAT**********TAGGTACCATGTTT
Mut   TCCCAGACCAGGAT***Deletion***TAGGTACCATGTTT
Allele-1:   158bp deletion in exon1

WT    TCCCAGACCAGGAT**********TAGGTACCATGTTT
Mut   TCCCAGACCAGGAT***Deletion***TAGGTACCATGTTT
Allele-2:   158bp deletion in exon1
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Genome sequence analysis of PCR products from parental (WT) and FSH knockout (KO) 293T cells, using sanger sequencing.