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CSF3R Knockout 293T Cell Line, Homozygous

Catalog No.: RM02721

Basic Information

Catalog No.
RM02721

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Background

The protein encoded by this gene is the receptor for colony stimulating factor 3, a cytokine that controls the production, differentiation, and function of granulocytes. The encoded protein, which is a member of the family of cytokine receptors, may also function in some cell surface adhesion or recognition processes. Alternatively spliced transcript variants have been described. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia.

Gene Information

Gene Symbol
CSF3R

Species
Human

Gene ID
1441

Swiss Prot
Q99062

Synonyms
SCN7; CD114; GCSFR; CSF3R

Product Information

Description
CSF3R Knockout cell line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:46bp deletion in exon1
Allele-2:46bp 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
Store at -20℃

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.

Contact

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Sequencing data

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WT    GGACTGCGTGC********************GTTGTACCAGA
Mut   GGACTGCGTGC***Deletion(46bp)****GTTGTACCAGA
AIlele-1:  46bp deletion in exon4

WT     GGACTGCGTGC********************GTTGTACCAGA
Mut    GGACTGCGTGC***Deletion(46bp)****GTTGTACCAGA
AIlele-2:  46bp deletion in exon4
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Genome sequence analysis of PCR products from parental (WT) and CSF3R knockout (KO) 293T cells, using sanger sequencing.