

GHRH Knockout 293T Cell Lysate, Homozygous

Catalog No.: RM02275

Basic Information

Catalog No.

RM02275

Category

Cell Lysate

Parental Cell line

293T

Genotype

Knockout

Gene Information

Gene Symbol

GHRH

Species

Human

Gene ID

2691

Swiss Prot

P01286

Synonyms

GHRF; GRF; INN

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Background

This gene encodes a member of the glucagon family of proteins. The encoded preproprotein is produced in the hypothalamus and cleaved to generate the mature factor, known as somatoliberin, which acts to stimulate growth hormone release from the pituitary gland. Variant receptors for somatoliberin have been found in several types of tumors, and antagonists of these receptors can inhibit the growth of the tumors. Defects in this gene are a cause of dwarfism, while hypersecretion of the encoded protein is a cause of gigantism. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Product Information

Description

GHRH Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing technology.

Allele-1:59bp deletion in exon2

Allele-2:65bp 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°C

Amount

50μL, 2μg/μL.

Storage

Lysate is stable for 12 months when stored at -20°C. 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.

Sequencing data

WT TGCATCTTACCA*****AGCAGGCAGCAGGG
Mut TGCATCTTACCA***Deletion***AGCAGGCAGCAGGG
Allele-1: 59bp deletion in exon2
WT TGCAGATGCCATCT*****AGCAGGCAGCAGGG
Mut TGCAGATGCCATCT***Deletion***AGCAGGCAGCAGGG
Allele-2: 65bp deletion in exon2

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