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Datasheet for ABIN7536471
CSH1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	CSH1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CSH1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Chorionic somatomammotropin hormone 1/Choriomammotropin/CSH1 Protein
Sequence:	VQTVPLSRLF DHAMLQAHRA HQLAIDTYQE FEETYIPKDQ KYSFLHDSQT SFCFSDSIPT PSNMEETQK SNLELLRISL LLIESWLEPV RFLRSMFANN LUYDTSDDSDD YHLLKDLEEG IQTLMGRLED GSRRTGQILK QTYSKFDTNS HNHDALLKNY GLLYCFRKDM DKVETFLRMV QCRSVEGSCG F
Specificity:	Val27-Phe217
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.001EU/µg

Target Details

Target:	CSH1
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Target Details

Alternative Name: Chorionic somatomammotropin hormone 1/Choriomammotropin/CSH1 ([CSH1 Products](#))

Background: Description: Chorionic somatomammotropin hormone, also known as Choriomammotropin, Lactogen, Placental lactogen and CSH1, is a secreted protein which belongs to the somatotropin / prolactin family. CSH1 is produced only during pregnancy and is involved in stimulating lactation, fetal growth and metabolism. Does not interact with GHR but only activates PRLR through zinc-induced dimerization. The CSH1 gene is member of the GH gene cluster on 17q, which consists of two growth hormone genes and three CSH genes. Genomic alterations in the GH cluster are well known, causing different phenotypes depending on the size of the deletion and the genes involved. The increased prevalence of hemizygoty of CSH1 in population in comparison to controls indicates a role for CSH1 haploinsufficiency in the etiology of growth retardation. Investigation of CSH1 deletions in further SRS and growth retarded patients will enable us to establish under which circumstances haploinsufficiency of CSH1 is likely to result in clinical changes.

Name: PL, CSA, CS-1, CSMT, GHB3, hCS-1, hCS-A

Gene ID: 1442

UniProt: [P0DML2](#)

Pathways: [Response to Growth Hormone Stimulus](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Concentration: 0.7 mg/mL

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
