

Recombinant Human Chorionic somatomammotropin hormone 1 /Choriomammotropin/CSH1 Protein

Catalog No.: RP01746

Sequence Information

Species **Gene ID**
Human 1442

Swiss Prot **Tags**
P0DML2 C-6His

Synonyms

PL; CSA; CS-1; CSMT; GHB3; hCS-1; hCS-A

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MWObserved MW
23.15 kDa 25 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

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

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.

Background

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 hemizygosity 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.

Basic Information

Description

Recombinant Human Chorionic somatomammotropin hormone 1 /Choriomammotropin/CSH1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val27-Phe217) of human Chorionic somatomammotropin hormone 1/Choriomammotropin /CSH1 (Accession #NP_001308.1) fused with a 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

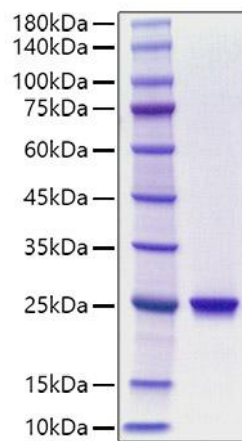
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Validation Data



Recombinant Human Chorionic somatomammotropin hormone 1 /Choriomammotropin/CSH1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.