

Active Recombinant Human CSH1 Protein, His-tagged

Cat. No. CSH1-037H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CSH1, fused to His-tag at Cterminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect cells
Description	The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones and plays an important role in growth control. The gene is located at the growth hormone locus on chromosome 17 along with four other related genes in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. Although the five genes share a remarkably high degree of sequence identity, they are expressed selectively in different tissues. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed mainly in the placenta and utilizes multiple transcription initiation sites. Expression of the identical mature proteins for chorionic somatomammotropin hormones 1 and 2 is upregulated during development, although the ratio of 1 to 2 increases by term. Mutations in this gene result in placental lactogen deficiency and Silver-Russell syndrome.
Form	Liquid
Bio-activity	Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50

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	range ≤ 0.8 ng/mL.
Molecular Mass	23.1 kDa
AA Sequence	VQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEETYIPKDQKYSFLHDSQTSFCFSDSI PTPSNMEETQQKSNLELLRISLLIESWLEPVRFRLRSMFANNLVYDTSDDYHLLKD LEEGIQTLMGRLEDGSRRTGQILKQTYSKFDTNSHNHDALLKNYGLLYCFRKDMDK VETFLRMVQCRSVEGSCGF
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -116 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol

GENE INFORMATION

Gene Name	CSH1 chorionic somatomammotropin hormone 1 [Homo sapiens (human)]
Official Symbol	CSH1
Synonyms	CSH1; chorionic somatomammotropin hormone 1; PL; CSA; CS-1; CSMT; GHB3; hCS-1; hCS-A; chorionic somatomammotropin hormone 1; Chorionic somatomammotropin hormone 2; choriomammotropin; chorionic

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somatomammotropin A; chorionic somatomammotropin-1; growth hormone B3; placental lactogen

Gene ID 1442

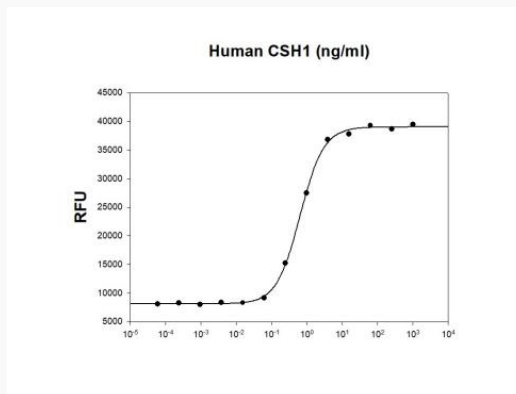
mRNA Refseq NM_001317

Protein Refseq NP_001308

MIM 150200

UniProt ID P0DML2

Biological Activity

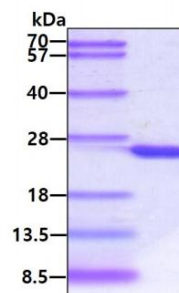


Human CSH1 stimulates cell proliferation of the Nb2-11 Rat lymphoma cells. The ED50 range ≤ 0.8 ng/mL.

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SDS-PAGE

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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