Active Recombinant Human CSH1 Protein, His-tagged

Cat. No. CSH1-007H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSH1 Protein (27-217aa) with His tag was expressed in insect cells.
Species	Human
Source	Insect Cells
ProteinLength	27-217aa
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

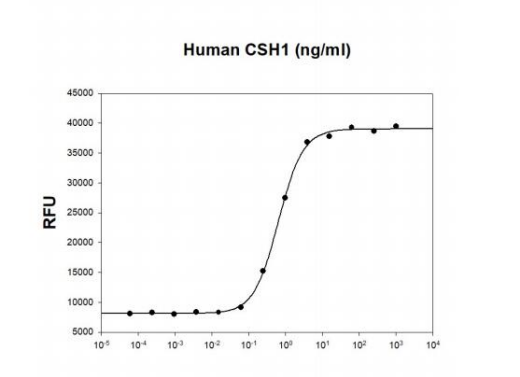
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Bio-activity	Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 range ≤ 0.8 ng/mL.
Molecular Mass	23.1kDa (197aa)
AA Sequence	VQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEETYIPKDQKYSFLHDSQTSFCFSDSI PTPSNMEETQQKSNLELLRISLLLIESWLEPVRFLRSMFANNLVYDTSDSDDYHLLKD LEEGIQTLMGRLEDGSRRTGQILKQTYSKFDTNSHNHDALLKNYGLLYCFRKDMDK VETFLRMVQCRSVEGSCGF
Endotoxin	< 1 EU per 1 ɡ 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 -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol

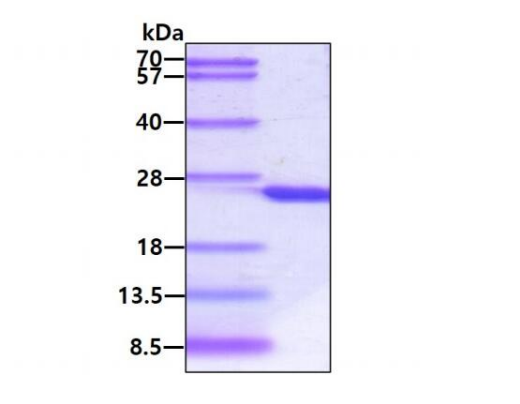
GENE INFORMATION

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

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	somatomammotropin hormone 2; choriomammotropin; chorionic 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 Angiopoietin-2 is coated at 5 μg/ml (100 μl/well) can bind Human Tie-2. The ED50 range ≤1 μg/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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