Bioactive

CSH1 (Human) Recombinant Protein

Catalog # P9030 Size 2 x 10 ug

Specification

Product Description	Human CSH1 (P0DML2, 27 a.a. - 217 a.a.) partial-length recombinant protein with His tag at C-Terminus expressed in *Baculovirus*.
Sequence	VQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEETYIPKDQKYSFLHDSQTSFCFSDSIPTPSNMEETQQKSNLELLRISLLLIESWLEPVRFLRSMFANNLVYDTSDSDDYHLLKDLEEGIQTLMGRLEDGSRRTGQILKQTYSKFDTNSHNHDALLKNYGLLYCFRKDMDKVETFLRMVQCRSVEGSCGFHHHHHH
Host	Escherichia coli
Theoretical MW (kDa)	23.1
Form	Liquid
Preparation Method	*Baculovirus* expression system
Purity	> 90% by SDS PAGE
Activity	Determined by cell proliferation assay using Nb2-11 Rat lymphoma cells. ED_{50} range for this effect is ≤ 0.8 ng/mL.
Storage Buffer	Lyophilized from 30% Glycerol and Phosphate-Buffered Saline (pH 7.4).
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

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Gene Info — CSH1

Entrez GeneID	1442
Protein Accession#	P0DML2
Gene Name	CSH1
Gene Alias	CSA, CSMT, FLJ75407, PL
Gene Description	chorionic somatomammotropin hormone 1 (placental lactogen)
Omim ID	150200
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	CS-1|choriomammotropin|chorionic somatomammotropin A|chorionic somatomammotropin hormone 1|hCS-A|placental lactogen

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway
- Neuroactive ligand-receptor interaction

Disease

- Birth Weight
- Body Weight

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- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- Metabolic Syndrome X

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