



Recombinant Bovine Chorionic somatomammotropin hormone 1 (CSH1)

Product Code	CSB-EP362744BO-B
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P09611
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	VEDY APYCKNQPGN CRIPLQSLFE RATLVSNNY RLAREMFNEF NKQFGEGKNF TSKVINSCHT EFMTTPNNKE AAANTEDEAL LRLVISLLHS WDEPLHQAVT ELLHRNGASP DILARAKEIE DKTKVLLGV EMIQKRVHPG EKKNEPYPVW SEKSSLTADD EDVRQTAFYR MFHCLHRDSS KISTYINLLK CRFTPC
Source	E.coli
Target Names	CSH1
Protein Names	Recommended name: Chorionic somatomammotropin hormone 1 Alternative name(s): BPLP-I Placental lactogen I
Expression Region	37-236
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein 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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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