

Placental Lactogen/CSH1 Active Protein | CSH1 active protein

Recombinant Human Placental Lactogen/CSH1 Protein

CATALOG # AAA48364	HOST Baculovirus	APPLICATIONS SDS-Page
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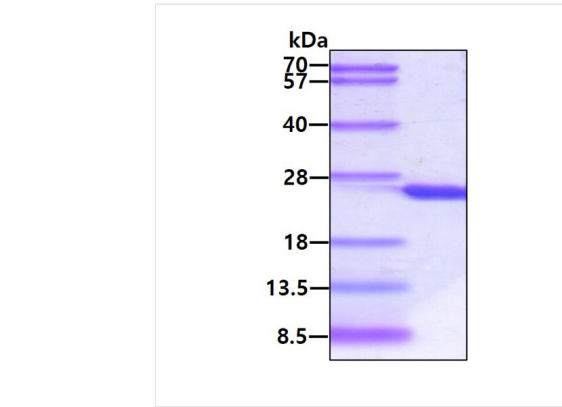
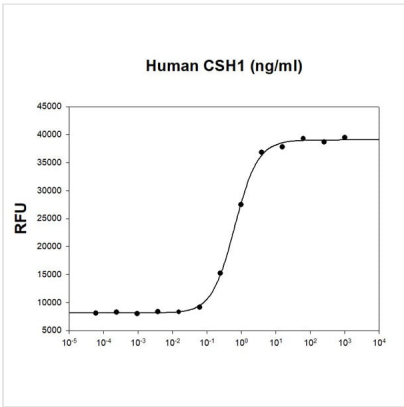
PRODUCT SYNONYMS

Placental Lactogen/CSH1; Recombinant Human Placental Lactogen/CSH1 Protein; chorionic somatomammotropin hormone 1 precursor; chorionic somatomammotropin A; choriomammotropin; placental lactogen; PL; chorionic somatomammotropin-1; Lactogen; CS-1; CSA; CSMT; CHB3; hcs-1; hcs-A; CSH1; CSH1 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 30% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	27-217aa
Sequence	VQTVPLSRFL DHAMLAHRA HQLAIDTYQE FEETYIPKDQ KYSFLHDSQT SFCFSDSIPT PSNMEETQQK SNLELLRISL LLIESWLEPV RFLRSMFANN LVYDTSDD YHLLKDLEEG IQLMGRLED GSRRTGQILK QTYSKFDNTS HNHDALLKNY GLLYCFRKDM DKVETFLRMV QCRSVEGSCG F
Applicable Applications for CSH1 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Human
Tag	His-Tag
Predicted N-term	Val
Bioactivity	Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 range <= 0.8ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human CSH1 stimulates cell proliferation of the Nb2-11 Rat lymphoma cells. The ED50 range

SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for CSH1 active protein	CSH1, also known as placental lactogen, is a member of the PRL/GH family. CSH1 gene is located on chromosome 17q which participates in the regulation of postnatal and intrauterine growth. This protein is produced only during pregnancy and plays important role in increase of pancreatic islets. It also inhibits apoptosis of insulinoma cell lines by activating the phosphorylation of AKT protein. CSH1 activates PRLR through zinc-induced dimerization but does not interact with GHR. Recombinant human CSH1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for CSH1 active protein	Signal Transduction; Hormones & Cytokines; Proteins
References	Prager S., et al, (2003) Genet Test. 7:259-263. Uemura S, et al, (2007) J Biol Chem. 282:8613-8621. Awonuga AO, et al, (2011) Mol Reprod Dev. 78:519-528.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503083
NCBI GeneID	1442
NCBI Accession #	NP_001308
NCBI GenBank Nucleotide #	NM_001317
UniProt Accession #	P0DML2; P01243; Q0VDB1; Q14407
Molecular Weight	25,020 Da
NCBI Official Full Name	chorionic somatomammotropin hormone 1
NCBI Official Synonym Full Names	chorionic somatomammotropin hormone 1 (placental lactogen)
NCBI Official Symbol	CSH1
NCBI Official Synonym Symbols	PL; CSA; CS-1; CSMT; hCS-1; hCS-A
NCBI Protein Information	chorionic somatomammotropin hormone 1; choriomammotropin; chorionic somatomammotropin A; chorionic somatomammotropin-1; placental lactogen
UniProt Protein Name	Chorionic somatomammotropin hormone 1
UniProt Gene Name	CSH1
UniProt Synonym Gene Names	Choriomammotropin; PL
UniProt Entry Name	CSH1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/baculovirus-active-protein/placental-lactogen-csh1/48364>