

Placental Lactogen/CSH1 Protein, Human (HEK293, His)

Cat. No.:	HY-P7871
Synonyms:	rHuPlacental Lactogen/CSH1, His; Chorionic Somatomammotropin Hormone; Choriomammotropin; Lactogen; Placental Lactogen; PL; CSH1
Species:	Human
Source:	HEK293
Accession:	PODML2 (V27-F217)
Gene ID:	1442
Molecular Weight:	Approximately 22-24kDa

PROPERTIES

AA Sequence	<p>V Q T V P L S R L F D H A M L Q A H R A H Q L A I D T Y Q E F E E T Y I P K D Q</p> <p>K Y S F L H D S Q T S F C F S D S I P T P S N M E E T Q Q K S N L E L L R I S L</p> <p>L L I E S W L E P V R F L R S M F A N N L V Y D T S D S D D Y H L L K D L E E G</p> <p>I Q T L M G R L E D G S R R T G Q I L K Q T Y S K F D T N S H N H D A L L K N Y</p> <p>G L L Y C F R K D M D K V E T F L R M V Q C R S V E G S C G F</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Placental Lactogen/CSH1 Protein, exclusively generated during pregnancy, plays a pivotal role in orchestrating lactation, fetal growth, and metabolic processes. Remarkably, it exhibits a unique mode of action, as it does not interact with the Growth Hormone Receptor (GHR). Instead, its activation is exclusively mediated through zinc-induced dimerization of the Prolactin Receptor (PRLR). This distinctive mechanism contributes to the protein's specificity and underscores its significance in the intricate processes associated with pregnancy and maternal physiology. Notably, Placental Lactogen/CSH1 can exist in both monomeric and dimeric forms, highlighting its structural versatility.</p>
-------------------	--

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA