



Recombinant Protein Technical Manual

Recombinant Human Placental Lactogen/CSH1 Protein (His Tag)

RPES2043

Product Data:

Product SKU: RPES2043

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P0DML2

Protein Information:

Molecular Mass: 23.4 kDa

AP Molecular Mass: 22 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Chorionic Somatomammotropin Hormone; Choriomammotropin; Lactogen; Placental Lactogen; PL; CSH1; CSH2;CS;CSA;CSMT;hCS;hCS-A

Immunogen Information:

Sequence: Val27-Phe217

Background:

Chorionic Somatomammotropin Hormone (CSH1) belongs to the Somatotropin/Prolactin family. It is located at the growth hormone locus on chromosome 17. It is produced by cells in the syncytiotrophoblast layer of the placenta only during pregnancy. Although CSH1 does not interact with GHR but only activates PRLR through zinc-induced dimerization. It is expressed mainly in the placenta and utilizes multiple transcription initiation sites. CSH1 plays an important role in stimulating lactation, growth control and metabolism.