Prolactin Rat E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Rat

Cat. No.:

RBG30069010	(10 µg)
RBG30069050	(50 µg)
RBG30069100	(100 µg)

Description

Prolactin is a neuroendocrine hormone secreted by the pituitary gland. Its primary function is to promote and maintain lactation during pregnancy and suckling. In addition, prolactin plays an immunoegulatory role by stimulating the activities of ornithine decarboxylase and protein kinase C, which are important for the proliferation, differentiation, and function of lymphocytes. Recombinant Rat Prolactin is a 22.6 kDa globular protein containing 198 amino acid residues.

Introduction to the Molecule

Prolactin (about 24 kDa, 199 amino acids) is a peptide hormone primarily associated with lactation. It is synthesised and secreted by lactotrope cells in the adenohypophysis. It is also produced in other tissues including the breast and the decidua. Prolactin stimulates the mammary glands to produce milk (lactation).

Research topic

Animal studies

Amino Acid Sequence

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MLPVCSGGDC QTPLPELFDR VVMLSHYIHT LYTDMFIEFD KQYVQDREFI AKAINDCPTS SLATPEDKEQ AQKVPPEVLL
NLILSLVHSW NDPLFQLITG LGGIHEAPDA IISRAKEIEE QNKRLLEGIE KIISQAYPEA KGNEIYLVWS QLPSLQGVDE
ESKDLAFYNN IRCLRRDSHK VDNYLKFLRC QIVHKNNC
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Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to induce the proliferation of rat Nb2-11 cells in the concentration range of 0.1-1.0 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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