Recombinant Human Prolactin

CATALOG #:  
- 4687-10  10 µg
- 4687-50  50 µg
- 4687-1000  1 mg

SOURCE:  
*E. coli*

PURITY:  
>95% by SDS-PAGE

ENDOTOXIN:  
<0.1 ng per µg of Prolactin.

MOL. WEIGHT:  
23.3 kDa (199 aa, 29-227)

FORM:  
Lyophilized

Formulation:  
Sterile Filtered lyophilized (freeze-dried) powder from 50 mM Tris, 100 mM NaCl, pH 8.0.

RECONSTITUTION:
Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:
The lyophilized protein is best-stored desiccated below 0°C. Reconstituted human Prolactin should be stored at working aliquots at -20°C.

DESCRIPTION:
Prolactin (also known as mammotrophin, luterotropic hormone, and lutetropin) 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 immune-regulatory role by stimulating the activities of ornithine decarboxylase and protein kinase C, which are important for the proliferation, differentiation, and function of lymphocytes. Recombinant human Prolactin is a 23 kDa globular protein containing 200 amino acid residues.

ACTIVITY:
The ED₅₀ determined by the dose-dependent stimulation of the proliferation of rat lymphoma, Nb2-11 cells was found to be <0.065 ng/ml.

RELATED PRODUCTS:
- Prolactin Antibody (Cat # 5688-100)
- Prolactin Antibody (Cat # 5689-100)
- Prolactin Receptor, human recombinant (Cat # 4989-20, -1000)
- Prolactin Receptor, rat recombinant (Cat # 4991-50, -1000)
- Prolactin, human recombinant (Cat # 4687-10, -50, -1000)
- Prolactin, murine recombinant (Cat # 4688-10, -50, -1000)
- Prolactin, rat recombinant (Cat # 4689-10, -50, -1000)

SDS-PAGE (15%) of purified human recombinant Prolactin protein.
Lane 1: Marker
Lane 2: 30 µg protein

FOR RESEARCH USE ONLY! Not to be used on humans.