

Recombinant Rat Prolactin / PRL Protein, Monomer

Cat. No. PRL-229R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat PRL Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	30-226 a.a.
Description	Prolactin is a hormone that is produced and secreted by the pituitary gland. Prolactin acts in an endocrine, paracrine, and autocrine manner. The prolactin receptor (PRLR) is expressed on many cell types, including cells of the reproductive organs, central nervous system, and breast cancer. Prolactin signal transduction occurs via JAK kinase signaling pathways. The primary function of prolactin is to regulate lactation, but prolactin also plays functional roles in the immune system and during cell growth, apoptosis, and differentiation.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Monomer, 22.7 kDa (198 aa)
AA Sequence	MLPVCSGGDCQTPLPELFDREVMLSHYIHTLYTDMFIEFDKQYVQDREFIAKAINDCP TSSLATPEDKEQAQKVPPEVLLNLISLVHSWNDPLFQLITGLGGIHEAPDAISRKEI EEQNKRLLLEGIEKIIISQAYPEAKGNEIYLVWSQLPSLQGVDEESKDIAFYNNIRCLRR DSHKVDNYLKFLRCQIVHKNNC

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Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	Prl prolactin [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	PRL
Synonyms	PRL; prolactin; prolactin family 1, subfamily a, member 1; PRLB; Prol; PRLSD1; Prl1a1; RNPROL; RATPRLSD1;

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Gene ID	24683
mRNA Refseq	NM_012629
Protein Refseq	NP_036761
UniProt ID	P01237

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