

# Recombinant Rat Prolactin Receptor, chiMAX Fc Fusion Protein

**Cat. No.** Prr -100R    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Prolactin is a neuroendocrine peptide hormone that is secreted primarily by the pituitary gland.
<b>Species</b>	Rat
<b>Source</b>	Insect Cells
<b>Description</b>	Prolactin receptor is a class 1 cytokine transmembrane receptor that varies in size with tissue source and species. It consists of an extracellular region with 5 cysteines which contains the prolactin binding site, a single transmembrane domain and a cytoplasmic region. The extracellular domain (Ser21-Asp229) is expressed recombinantly, purified by chromatography, sterile filtered and lyophilized.
<b>Form</b>	Lyophilized powder
<b>Molecular Mass</b>	51,000
<b>Purity</b>	>95% by SDS-PAGE analysis
<b>Characteristic</b>	ED <sub>50</sub> < 50 ng/ml in the presence of 0.5 ng/ml of recombinant human prolactin as determined in a cell proliferation assay using nb2-11 rat lymphoma
<b>Usage</b>	For in vitro laboratory use only

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**Notes** Optimal experimental conditions and working dilutions must be determined by the end user. Sample concentration and volume are for example purposes only and do not necessarily represent the product that will be received. Please contact us for a current lot-specific product datasheet.

**Storage** -70°C

**Storage Buffer** PBS

**Shipping** Cold pack

## GENE INFORMATION

**Gene Name** [Prlr prolactin receptor \[ Rattus norvegicus \]](#)

**Official Symbol** Prlr

**Synonyms** PRLR; prolactin receptor; PRL-R; lactogen receptor; RATPRLR; MGC105486;

**Gene ID** [24684](#)

**mRNA Refseq** [NM\\_001034111](#)

**Protein Refseq** [NP\\_001029283](#)

**UniProt ID** [P05710](#)

**Chromosome Location** 2q16

**Pathway** Adipogenesis, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved

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biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem;

**Function**

metal ion binding; peptide hormone binding; prolactin receptor activity; prolactin receptor activity; protein kinase binding; receptor activity;

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