

Recombinant Rat Prolactin Receptor

Cat. No. Prlr-1797R **Lot. No.** (See product label)

SPECIFICATION

Species	Rat
Source	Mammalian Cells
Description	Prolactin Receptor (PRLR) is a cytokine receptor superfamily that lacks an intrinsic kinase domain and relies on the cytoplasmic Jak tyrosine kinases to transduce signals. PRLR is required for the signaling and proliferation of prolactin.
Molecular Weight	The predicted molecular weight of Recombinant Rat PRL is Mr 51 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 67-74 kDa.
State Of Matter	Lyophilized.
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	The biological activity of Rat PRL was determined by Measured by its ability to neutralize the rhProlactin-induced proliferation of the rat lymphoma Nb2-11 treated with 0.5 ng/mL of rhProlactin.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

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GENE INFORMATION

Gene Name	Prlr prolactin receptor [Rattus norvegicus]
Synonyms	Prlr; prolactin receptor; RATPRLR; MGC105486
Gene ID	24684
mRNA Refseq	NM_001034111
Protein Refseq	NP_001029283
UniProt ID	P05710
Chromosome Location	2q16
Pathway	Cytokine-cytokine receptor interaction; Neuroactive ligand-receptor interaction; Jak-STAT signaling pathway
Function	peptide hormone binding; prolactin receptor activity; protein binding

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