



## Prolactin receptor Recombinant Protein

CATALOG NUMBER: 92-651

### Specifications

<b>SPECIES:</b>	Mouse
<b>SOURCE SPECIES:</b>	Human Cells
<b>SEQUENCE:</b>	Gln20-Asp229
<b>FUSION TAG:</b>	C-6 His tag
<b>APPLICATIONS:</b>	This recombinant protein can be used for biological assays. For research use only.

### Properties

<b>PURITY:</b>	Greater than 95% as determined by reducing SDS-PAGE. Endotoxin level less than 0.1 ng/ug (1 IEU/ug) as determined by LAL test.
<b>PREDICTED MOLECULAR WEIGHT:</b>	25.6 kD
<b>PHYSICAL STATE:</b>	Lyophilized
<b>BUFFER:</b>	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4. It is not recommended to reconstitute to a concentration less than 100 ug/ml. Dissolve the lyophilized protein in ddH <sub>2</sub> O.
<b>STORAGE CONDITIONS:</b>	Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

### Additional Info

<b>ALTERNATE NAMES:</b>	Prolactin receptor, PRL-R, Prlr, Prolactin R
<b>ACCESSION NO.:</b>	Q08501

### Background

The prolactin receptor (PRLR) is a member of the class I cytokine/lactogen receptor family which mediates the diverse cellular actions of prolactin in several tissues. PRLRs are expressed in normal and neoplastic human breast tissue, and in most breast cancer cells. PRLR contains an extracellular region that binds prolactin, a transmembrane region, and a cytoplasmic region required for the activation of the Jak2-Stat5 signal transduction pathway by Prl which is essential for transcriptional activation of all known prolactin regulated genes. PRLRs have also been observed in ovarian follicular cells of mice, pigs, sheep, deer, and humans, as well as in luteal tissue in cow and horse ovaries. Furthermore, PRLR knockout mice exhibit failure of embryonic implantation, reduced number of mature oocytes, and low fertilization rates. Knockout females also display a reduced number of primary follicles.

**FOR RESEARCH USE ONLY**

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