

## Prolactin R Protein, Rat (HEK293, His)

Cat. No.:	HY-P73693
Synonyms:	Prolactin receptor; PRL-R; Prolactin R
Species:	Rat
Source:	HEK293
Accession:	P05710 (Q20-D229)
Gene ID:	24684
Molecular Weight:	Approximately 32-41 kDa due to the glycosylation

### PROPERTIES

AA Sequence	<p>Q S P P G K P E I H    K C R S P D K E T F    T C W W N P G T D G    G L P T N Y S L T Y</p> <p>S K E G E K T T Y E    C P D Y K T S G P N    S C F F S K Q Y T S    I W K I Y I I T V N</p> <p>A T N Q M G S S S S    D P L Y V D V T Y I    V E P E P P R N L T    L E V K Q L K D K K</p> <p>T Y L W V K W S P P    T I T D V K T G W F    T M E Y E I R L K P    E E A E E W E I H F</p> <p>T G H Q T Q F K V F    D L Y P G Q K Y L V    Q T R C K P D H G Y    W S R W S Q E S S V</p> <p>E M P N D F T L K D</p>
Biological Activity	Measured by its ability to inhibit Prolactin-induced proliferation of Nb2-11 rat lymphoma cells. The ED <sub>50</sub> for this effect is 0.01808 µg/mL in the presence of 0.5 ng/mL of recombinant human Prolactin, corresponding to a specific activity is 5.531×10 <sup>4</sup> units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Prolactin R Protein serves as a receptor specifically designed for the anterior pituitary hormone prolactin. Through its binding with prolactin, this receptor initiates signaling cascades that modulate various physiological processes. Notably,
------------	---

---

Prolactin R Protein interacts with SMARCA1, indicating potential involvement in chromatin remodeling processes. Furthermore, its interactions with NEK3 and VAV2 are prolactin-dependent, suggesting a dynamic and regulated interplay in response to prolactin stimulation. These molecular interactions highlight the receptor's multifaceted roles in mediating cellular responses to prolactin and underscore its significance in regulating diverse cellular functions.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA