Prolactin R Protein, Human (HEK293, His)

Cat. No.:	HY-P73696
Synonyms:	Prolactin receptor; PRL-R; Prolactin R
Species:	Human
Source:	HEK293
Accession:	NP_000940.1 (Q25-D234)
Gene ID:	5618
Molecular Weight:	Approximately 34.68 kDa

PROPERTIES

AA Sequence	Q L P P G K P E I F K C R S P N K E T F T C W W R P G T D G G L P T N Y S L T Y H R E G E T L M H E C P D Y I T G G P N S C H F G K Q Y T S M W R T Y I M M V N A T N Q M G S S F S D E L Y V D V T Y I V Q P D P P L E L A V E V K Q P E D R K P Y L W I K W S P P T L I D L K T G W F T L L Y E I R L K P E K A A E W E I H F A G Q Q T E F K I L S L H P G Q K Y L V Q V R C K P D H G Y W S A W S P A T F I Q I P S D F T M N D
Biological Activity	Measured by its ability to inhibit Prolactin-induced proliferation of Nb2Ø11 rat lymphoma cells. The ED_{50} this effect is 0.03362 μg/mL in the presence of 0.5 ng/mL of recombinant human Prolactin, corresponding to a specific activity is 2.97×10^4 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 5-8% Trehalose, 0.01% Tween 80, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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, encoded by this gene, is a receptor for the anterior pituitary hormone prolactin and is a member of the type I cytokine receptor family. Its function involves prolactin-dependent signaling, triggered by ligand-induced dimerization of the prolactin receptor. The gene exhibits several alternatively spliced transcript variants encoding diverse

membrane-bound and soluble isoforms, potentially contributing to the modulation of the endocrine and autocrine effects of prolactin in both normal tissue and cancer. The expression of Prolactin R demonstrates bias, with notable levels observed in the placenta (RPKM 18.9), endometrium (RPKM 11.6), and eight other tissues, underscoring its specialized role in various physiological contexts and its potential involvement in reproductive and endocrine processes.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA