

Prolactin Protein, Rat (His)

Cat. No.:	HY-P71916A
Synonyms:	Prl; Prolactin; PRL
Species:	Rat
Source:	E. coli
Accession:	P01237 (L30-C226)
Gene ID:	24683
Molecular Weight:	Approximately 24 kDa

PROPERTIES

AA Sequence	<p> LPVCSGGDCQ TPLPELFDREV VMLSHYIHTL YTDMFIEFDK QYVQDREFIA KAINDCPTSS LATPEDKEQA QKVPPEVLLN LILSLVHSWN DPLFQLITGL GGIHEAPDAI ISRAKEIEEQ NKRLLEGIEK IISQAYPEAK GNEIYLVWSQ LPSLQGVDEE SKDLAFYNNI RCLRRDSHKV DNYLKFLRCQ IVHKNNC </p>
Biological Activity	Measured in a cell proliferation assay using Nb211 rat lymphoma cells. The ED ₅₀ for this effect is 0.288 ng/mL, corresponding to a specific activity is 3.472×10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.
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 ₂ 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 protein exerts its main actions on the mammary gland, primarily promoting lactation. This crucial function is achieved through its interaction with the specific receptor known as PRLR, which facilitates the process of lactation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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