

Active Recombinant Mouse Prolactin / Prl Protein

Cat. No. Prl-63M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Prl protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	31-228 a.a.
Description	This gene encodes the anterior pituitary hormone prolactin. This secreted hormone is a growth regulator for many tissues, including cells of the immune system. It may also play a role in cell survival by suppressing apoptosis, and it is essential for lactation. Alternative splicing results in multiple transcript variants that encode the same protein.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to induce cAMP accumulation in murine MC3T3E1 cells is less than 50 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^4$ IU/mg.
Molecular Mass	Approximately 22.4 kDa, a single non-glycosylated polypeptide chain containing 197 amino acids.
AA Sequence	LPICSAGDCQTSRLRFDRVVLISHYIHTLYTDMFIEFDKQYVQDREFMVKVINDCPTS SLATPEDKEQALKVPPEVLLNLISLVQSSSDPLFQLITGVGGIQEAPEYILSRAKEIEE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QNKQLLEGVEKIISQAYPEAKGNGIYFVWSQLPSLQGVDEESKILSLRNTIRCLRRDS
HKVDNFLKVLRCQIAHQNNC

Endotoxin

Less than 0.1 EU/μg of rMuProlactin as determined by LAL method.

Purity

>98% by SDS-PAGE and HPLC analysis.

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name

Prl

Official Symbol

Prl

Synonyms

PRL; prolactin; Prl1a1; AV290867;

Gene ID

19109

mRNA Refseq

NM_001163530

Protein Refseq

NP_001157002

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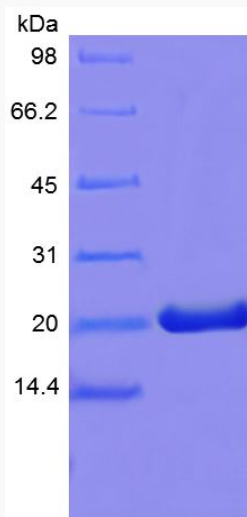
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UniProt ID

Q3TT66

SDS-PAGE of Pri-
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