DATASHEET

Recombinant Human Prolactin

CAT. NO. ARP6664

KEY FEATURES

Target	Prolactin	Source/Expression System	E.coli
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHuProlactin	Synonyms	Mammotropin, Luteotropic hormone, Luteotropin

BACKGROUND

Prolactin (gene name PRL) is a secreted neuroendocrine pituitary hormone that acts primarily on the mammary gland to promote lactation, but has pleiotropic effects in both males and females. Its primary function is to promote and maintain lactation during pregnancy and suckling. In addition, prolactin plays an immunoregulatory role by stimulating the activities of ornithine decarboxylase and protein kinase C, which are important for the proliferation, differentiation, and function of lymphocytes. Human prolactin shares only 60% and 63% amino acid sequence identity with mouse and rat prolactin, respectively, although rat prolactin can activate the human prolactin receptor. Recombinant Human Prolactin is a 23.0kDa globular protein containing 200 amino acid residues.

PRODUCT OVERVIEW

Molecular Weight	Approximately 23.0 kDa, a single non-glycosylated polypeptide chain containing 200 amino acids.
Accession	P01236 Leu29-Cys227 with an N-terminal Met
A.A. Sequence	MLPICPGGAARCQVTLRDLFDRAVVLSHYIHNLSSEMFSEFDKRYTHGRGFITKAINSCHTSSLATPEDKEQAQQMN QKDFLSLIVSILRSWNEPLYHLVTEVRGMQEAPEAILSKAVEIEEQTKRLLEGMELIVSQVHPETKENEIYPVWSGLPSL QMADEESRLSAYYNLLHCLRRDSHKIDNYLKLLKCRIIHNNNC
Purity	＞98% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. Determined by its ability to induce the proliferation of rat Nb2-11 cells in the concentration range of 0.1-1.0 ng/ml..
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rHuProlactin protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a 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°C. Further dilutions should be made in appropriate buffered solutions.

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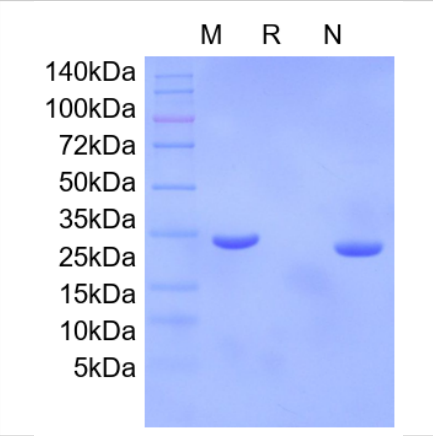
DATA



SDS-PAGE

STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.