

Recombinant Human Prolactin

Product Description

Prolactin is a neuroendocrine hormone secreted by the pituitary gland. 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. Recombinant Human Prolactin is a 23.0 kDa globular protein containing 200 amino acid residues.

Typical Specifications

Species	Human
Expression	E. coli Cell Expressed
Purity	≥98%
Endotoxin	<1.0 EU/μg
Molecular Mass	23.0 kDa
Formulation	10 mM Sodium Phosphate, pH 8.0 + 50 mM NaCl
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

Determined by its ability to induce proliferation of rat Nb2- 11 cells in the concentration range of 0.1-1.0 ng/ml.

AA Sequence

MLPICPGGAA	RCQVTLRDLF	DRAVVLSHYI
HNLSEMSE	FDKRYTHGRG	FITKAINSCH
TSSLATPEDK	EQAQQMNQKD	FLSLIVSILR
SWNEPLYHLV	TEVRGMQEAP	EAILSKAVEI
EEQTKRLLG	MELIVSQVHP	ETKENEIYPV
WSGLPSLQMA	DEESRLSAYY	LLHCLRRDS
HKIDNYLKLL	KCRIIHNNNC	

Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in Sodium Phosphate, pH 8.0, to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Storage

For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

Limited Use and Restrictions

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