

# Recombinant Human Prolactin

Cat. No. PRL-78H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human prolactin was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	29-227 a.a.
<b>Description</b>	Prolactin is a hormone synthesised and secreted by lactotrope cells in the adenohypophysis (anterior pituitary gland). Prolactin has many effects, the most significant of which is to stimulate the mammary glands to produce milk (lactation). Increased serum prolactin during pregnancy causes enlargement of the mammary glands of the breasts and increases the production of milk. Recently, prolactin has demonstrated broader roles in breast cancer development, regulation of reproductive function, and immunoregulation.
<b>Sequences of amino acids</b>	MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSSSEMFSE FDKRYTHGRG FITKAINSCH TSSLATPEDK EQAQQMNQKD FLSLIVSILRSWNEPLYHLV TEVRGMQEAP EAILSKAVEI EEQTKRLLLEG MELIVSQVHP ETKENEIYPV WSGLPSLQMA DEESRLSAYY NLLHCLRRDS HKIDNYLKLL KCRIIHNNNC
<b>Formulation</b>	Liquid. In Phosphate buffer saline (pH 7.4)

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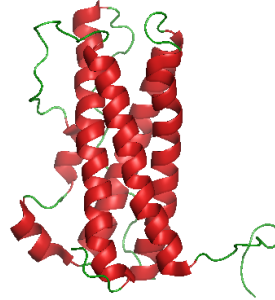
<b>Purity</b>	> 95% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PRL prolactin [ Homo sapiens ]
<b>Synonyms</b>	OTTHUMP00000017727; prolactin; PRL
<b>Gene ID</b>	5617
<b>mRNA Refseq</b>	NM_000948
<b>Protein Refseq</b>	NP_000939
<b>MIM</b>	176760
<b>UniProt ID</b>	P01236
<b>Chromosome Location</b>	6p22.2-p21.3
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction
<b>Function</b>	hormone activity; prolactin receptor binding

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