

**Datasheet for 009-001-W15-1000****rHuman Prolactin Protein****Overview**

<b>Description:</b>	Human Prolactin Recombinant Protein - 009-001-W15-1000
<b>Item No.:</b>	009-001-W15-1000
<b>Size:</b>	1 mg
<b>Origin:</b>	Human
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Prolactin (PRL) is a hormone that is made and secreted by the pituitary gland and acts in an endocrine, paracrine and autocrine manner. The prolactin receptor is expressed on many cell types and is linked to JAK kinase signaling pathways. PRL's primary function is to regulate lactation, but it is known to have many other regulation functions. These functions include roles in the immune system, cell growth, apoptosis, and differentiation. Recombinant human Prolactin is a non-glycosylated protein, containing 200 amino acids, with a molecular weight of 23 kDa.
<b>Synonyms:</b>	LTH, Mamotropin, Luterotropic hormone, Lutetropin
<b>Species of Origin:</b>	Human
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	PRL
<b>Purity/Specificity:</b>	prolactin purity was determined to be greater than 97% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P01236</a></li></ul>

## Application Details

<b>Application Note:</b>	Prolactin Recombinant Protein is suitable as a control for polyclonal or monoclonal anti-Prolactin in immunological assays.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the ability to stimulate proliferation of NB2-11 cells and is typically less than 1 ng/mL.

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	0.01 M Sodium Phosphate, pH 7.5
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	1.0 mL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Disclaimer

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