

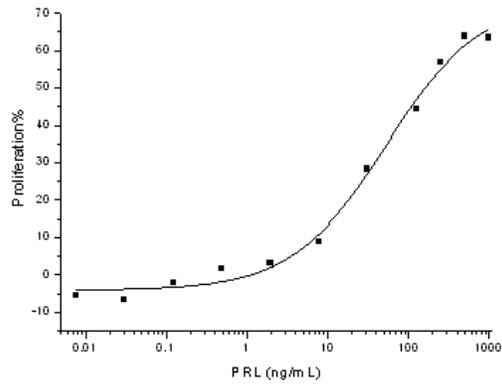
PRL

Recombinant Human Prolactin / PRL (His Tag)

Catalog No.	CRH438A-His CRH438B-His	Quantity:	50 µg 200 µg
Alternate Names:	Prolactin, PRL		
Description:	Prolactin (PRL) is a hormone with multiple actions in the central nervous system (CNS) spanning from physiology to pathology. PRL exerts different actions through its receptors that can be found in both neurons and glial cells (astrocytes, microglia and oligodendrocytes) of the brain. It is generally believed that in vertebrates, prolactin (PRL) is predominantly synthesized and released by pituitary lactotrophs and plays important roles in many physiological processes via activation of PRL receptor (PRLR), including water and electrolyte balance, reproduction, growth and development, metabolism, immuno-modulation, and behavior.		
UniProt ID:	P01236		
Accession Number:	CAA25214.1		
Protein Construction:	A DNA sequence encoding the human PRL (Met1-Cys227) was expressed with a polyhistidine tag at the C-terminus.		
Source:	Baculovirus-Insect Cells		
Molecular Weight:	The recombinant human PRL consists of 210 amino acids and predicts a molecular mass of 24.3 kDa.		
Formulation:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, 10 %gly, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Purity:	> 95 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Measured by its ability to promote proliferation of INS-1 cells. The ED50 for this effect is typically 20-120 ng/mL.		
Predicted N-terminal:	Leu 29		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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