

PRL

Recombinant Sheep Prolactin

Catalog No.	CRP000A CRP000B CRP000C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Prolactin, PRL		
Description:	Prolactin is a neuroendocrine hormone synthesized primarily by the pituitary gland but also a variety of other cell types including the placenta, brain and uterus. Its primary function is to promote and maintain lactation but has also been shown to have a role in breast cancer development, regulation of reproductive function and immunoregulation.		
UniProt ID:	P01240		
Gene ID:	443317		
Concentration:	1.0 mg/ml, prior to lyophilization		
Source:	<i>E. coli</i>		
Molecular Weight:	23.0 kDa (199 aa) monomer		
Formulation:	Lyophilized from a 1.0 mg/ml solution with 0.02-0.03% NaHCO ₃		
Purity:	> 99% as determined by SDS-PAGE and SEC-HPLC analyses		
Endotoxin Level:	< 0.1 ng/µg of PRL		
Protein Content:	Protein quantitation was performed by UV spectroscopy using $E_{280\text{ nm}}^{0.1\%} = 0.93$. This value is calculated by the PC DNAMAN computer analysis program of protein sequences.		
Biological Activity:	Fully biologically active as evidenced by inducing proliferation of Nb2 cells.		
N-terminal Sequence:	Ala-Thr-Pro-Val-Cys-Pro		
Amino Acid Sequence:	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Pro-Val-Cys-Pro.		
Reconstitution:	Centrifuge vial prior to opening. It is recommended to reconstitute the lyophilized Prolactin in sterile deionized water or 0.4% NaHCO ₃ adjusted to pH 8-9, at 0.1-1.0 mg/ml, which can then be further diluted to other aqueous solutions.		
Storage & Stability:	Upon receipt store lyophilized protein at -20°C to -80°C for up to 1 year. Upon reconstitution, store at 2-8°C for immediate use (within 1 week) or in aliquots at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.		

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