

AR50007PU-S

Recombinant Human Prolactin / PRL (aa 29-227) - Purified

Quantity:	0.1 mg
Concentration:	1 mg/ml (determined by Bradford assay)
Background:	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. Prolactin was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Uniprot ID:	P01236
NCBI:	NP_000939
GeneID:	5617
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS - PAGE Buffer System: Phosphate buffer saline (pH 7.4) Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)
Description:	AA Sequence: MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSEMFSE FDKRYTHGRG FITKAINSCH TSSLATPEDK EQAQQMNQKD FLSLIVSILR SWNEPLYHLV TEVRGMQEAP EAILSKAVEI EEQTKRLLEG MELIVSQVHP ETKENEIYPV WSGPLSLQMA DEESRLSAYY NLLHCLRRDS HKIDNYLKLL KCRIIHNNNC Biological Activity: Measured in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 for this effect is less or equal to 0.5 ng/ml. Molecular weight: 23 kDa (200 aa), confirmed by MALDI-TOF.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Ben-jonathan N., et al. (1996) Endocr Rev. 17(6):639-69. Cooke NE., et al. (1981) J. Biol. Chem. 256, 4007-4016. Goffin V., et al. (1999) Mol Cell Endocrinol. 151, 79-87.

Pictures:

