

## Prolactin Active Protein | PRL active protein

Prolactin, 29-227aa, Human, E Coli (Bioactivity Validated)

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48461</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

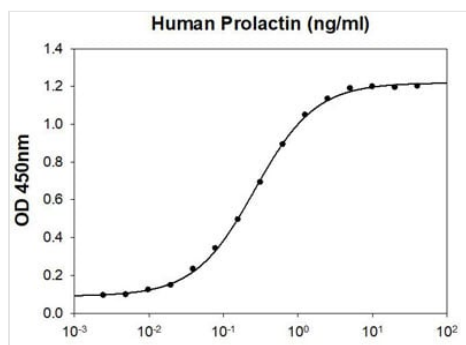
### PRODUCT SYNONYMS

Prolactin; 29-227aa; Human; E Coli (Bioactivity Validated); PRL; Lactogenic hormone; Luteotropic hormone; Mamotropin; OTTHuMP00000017727; Prolactin precursor.; PRL active protein

### PRODUCT SPECIFICATIONS

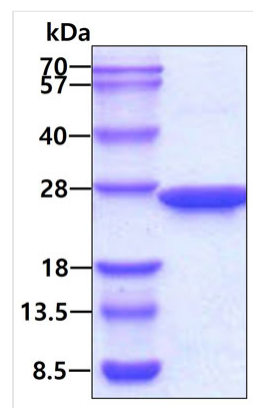
|                                                |                                                                                                                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | E Coli                                                                                                                                                                                                                             |
| Purity/Purification                            | > 95% by SDS-PAGE                                                                                                                                                                                                                  |
| Form/Format                                    | Liquid. In phosphate buffer saline (pH 7.4)                                                                                                                                                                                        |
| Concentration                                  | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                             |
| Sequence                                       | MLPICPGGAA RCQVTLRDLF DRAVVLSHYI HNLSEMSEFSE FDKRYTHGRG FITKAINSCH TSSLATPEDK<br>EQAQQMNQKD FLSLIVSILR SWNEPLYHLV TEVRGMQEAP EAILSKAVEI EEQTKRLEGG MELIVSQVHP<br>ETKENEIYPV WSGLPQLQMA DEESRLSAYY NLLHCLRRDS HKIDNYLKLL KCRIIHNNNC |
| Sequence Length                                | 227                                                                                                                                                                                                                                |
| Applicable Applications for PRL active protein | Bioactivity, SDS-PAGE                                                                                                                                                                                                              |
| Antigen Species                                | Human                                                                                                                                                                                                                              |
| Endotoxin Level                                | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                                                                                                     |
| 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.                                                                                                    |
| Preparation and Storage                        | Can be stored at +2 to +8 degrees C for 1 week.<br>For long term storage, aliquot and store at -20 degrees C to -80 degrees C.<br>Avoid repeated freezing and thawing cycles.                                                      |

### IMAGES



#### Bioactivity

Human Prolactin in a cell proliferation assay using Nb2-11 Rat lymphoma cells. The ED50 range is less than or equal to 0.5ng/ml.



#### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for PRL active protein | 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. |
| Product Categories/Family for PRL active protein   | Hormones & Cytokines                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                         | 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.;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|                                  |                                          |
|----------------------------------|------------------------------------------|
| NCBI GI #                        | 4506105                                  |
| NCBI GeneID                      | 5617                                     |
| NCBI Accession #                 | NP_000939                                |
| NCBI GenBank Nucleotide #        | NM_000948.5                              |
| UniProt Accession #              | P01236; Q15199; Q92996                   |
| Molecular Weight                 | 23 kDa (200 aa), confirmed by MALDI-TOF. |
| NCBI Official Full Name          | prolactin                                |
| NCBI Official Synonym Full Names | prolactin                                |
| NCBI Official Symbol             | PRL                                      |
| NCBI Official Synonym Symbols    | GHA1                                     |
| NCBI Protein Information         | prolactin                                |
| UniProt Protein Name             | Prolactin                                |
| UniProt Gene Name                | PRL                                      |
| UniProt Synonym Gene Names       | PRL                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/prolactin/48461>