

# Product information

## Prolactin, 30-228aa

Mouse, His-tagged, Recombinant, *E.coli*

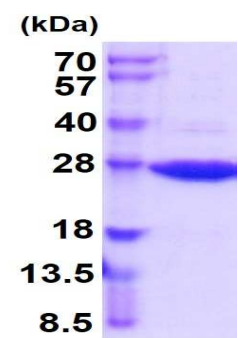
Cat. No. IBATGP3777

**Full name:** Prolactin isoform 1

**NCBI Accession No.:** NP\_035294

**Synonyms:** AV290867, Gha1, Prl1a1, Growth hormone a1

**Description:** Prolactin, also known as prl, is a hormone synthesized and secreted by lacto trope 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 immuno-regulation. Recombinant mouse Prolactin, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol</p> <p><b>Molecular Weight:</b> 25 kDa (222aa) Confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 90% by SDS-PAGE</p> <p><b>Endotoxin Level :</b> &lt;1.0 EU per 1 ug of protein (determined by LAL method)</p> <p><b>Concentration:</b> 0.25 mg/ml (determined by Bradford assay)</p>	 <p>(kDa)</p> <p>70</p> <p>57</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>8.5</p> <p>15% SDS-PAGE (3ug)</p>
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**Sequences of amino acids:**

MGSSHHHHH SSGLVPRGSH MGSQPLPICS AGDCQTSLRE LFDREVILSH YIHTLYTDMF IEFDKQYVQD REFMVKVIND CPTSSLATPE  
 DKEQALKVPP EVLLNLI LSL VOSSSDPLFQ LITGVGGIQE APEYILSRAK EIEEQNKQLL EGVEKIISQA YPEAKNGNIY FVWSQLPSLQ  
 GVDEESKILS LRNTIRCLRR DSHKVDNFLK VLRCQIAHQN NC

**General references:**

Suzuki MF., *et al.* (2012) *Biotechnol Appl Biochem.* 59(3):178-85

Goffin V., *et al.* (1999) *Mol Cell Endocrinol.* 151(1-2):79-87.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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