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## Product Datasheet

### Human Prolactin protein, His tag (active), Unconjugated GTX00069-PRO

Artikelname	Human Prolactin protein, His tag (active), Unconjugated
Artikelnummer	GTX00069-PRO
Hersteller Artikelnummer	GTX00069-pro
Alternativnummer	GTX00069-PRO-10
Hersteller	GeneTex
Kategorie	Proteine/Peptide
Applikation	FA
Spezies Reaktivität	Human
Konjugation	Unconjugated
NCBI	<a href="#">5617</a>
UniProt	<a href="#">Q5THQ0</a>
Puffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose, ProClin 300.
Expression System	HEK293 cells
Formulierung	Lyophilized powder
Sequenz	N-terminal His-Tag, Leu29~Cys227 (NP_000939.1)

#### Anwendungsbeschreibung

PRL (prolactin), also known as luteotropin, is a hormone secreted from the pituitary gland and is best known for its role in enabling mammals to produce milk. PRL plays an essential role in metabolism, regulation of the immune system. According to reports, PRL also stimulates proliferation of certain cells, including MCF-7. Thus, proliferation assay of PRL was conducted using MCF-7 cells. Briefly, MCF-7 cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of PRL. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37C. Cell proliferation of MCF-7 cells after stimulated with PRL. And PRL significantly promoted cell proliferation of MCF-7 cells. The ED50 for this effect is typically 3. 709-8. 973 ng/ml