

## Human IL6 protein, His tag (active)

## Cat. No. GTX00095-pro

|              |                  |         |
|--------------|------------------|---------|
| Applications | Functional Assay | Package |
| Species      | Human            | 10 µg   |

## Applications

## Application Note

Interleukin 6 (IL-6) is an interleukin that acts as both a pro-inflammatory cytokine and an anti-inflammatory myokine. Current data suggest that direct application of IL-6 on breast cancer cells inhibits proliferation in ER-positive (estrogen- receptor- positive) cells through the Jak/Stat3 pathway. To test the inhibitory effect of IL-6 on proliferation of ER-positive MCF-7 cell line, cells were seeded into triplicate wells of 96-well plates at a density of 5000 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 IL-6. After incubated for 96h, cells were observed by inverted microscope. The inhibitory effect of IL-6 on cell proliferation of MCF-7 cells observed by inverted microscope.

Observed MW (kDa) 22/24 kDa.

## Properties

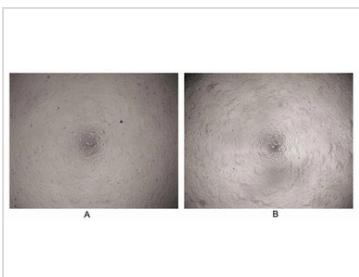
|                   |                                                                                                                                                                                  |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form              | Lyophilized powder                                                                                                                                                               |
| Buffer            | 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.                   |
| Preservative      | ProClin 300                                                                                                                                                                      |
| Storage           | For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles. |
| Region/Sequence   | N-terminal His-Tag; Val30~Met212 (NP_000591.1)                                                                                                                                   |
| Expression System | HEK293 cells                                                                                                                                                                     |
| Purity            | > 97%                                                                                                                                                                            |
| Endotoxin         | < 1 EU/µg                                                                                                                                                                        |
| Conjugation       | Unconjugated                                                                                                                                                                     |
| Note              | For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.                                         |



For full product information, images and publications, please visit our [website](#).

Date 2026 / 02 / 02 Page 1 of 2

## DATA IMAGES

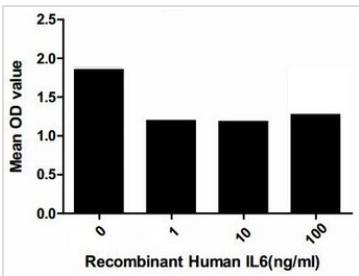


## GTX00095-pro Functional Assay Image

The inhibition effect of GTX00095-pro Human IL6 protein (active) on cell proliferation.

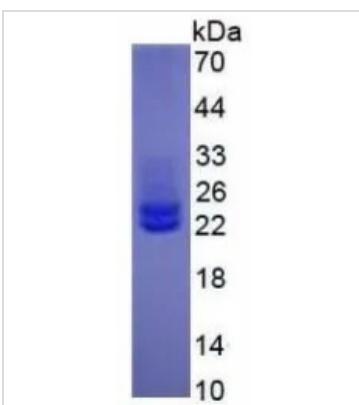
(A) Unstimulated MCF-7 cells cultured in serum-free DMEM for 96hrs.

(B) MCF-7 cells cultured in serum-free DMEM, stimulated with 100 ng/ml IL-6 for 96hrs.



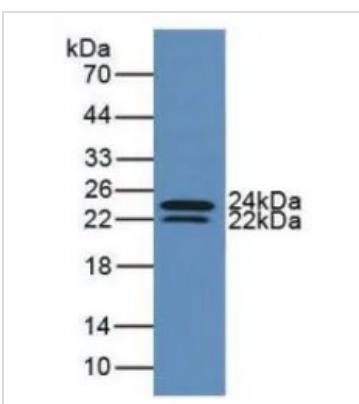
## GTX00095-pro Functional Assay Image

Cell suppression effect of GTX00095-pro Human IL6 protein (active) on MCF-7 cells. After incubation of Human IL6 protein (active) for 96hrs, cell viability was measured by Cell Counting Kit-8 (CCK-8).



## GTX00095-pro Image

SDS-PAGE analysis of GTX00095-pro Human IL6 protein (active).



## GTX00095-pro Image

WB analysis of GTX00095-pro Human IL6 protein (active).



For full product information, images and publications, please visit our [website](#).

Date 2026 / 02 / 02 Page 2 of 2