

Human IL6 protein, His tag (active)

Cat. No. GTX00095-pro

Application	Functional Assay
Species	Human

Package
10 µg

APPLICATION

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.

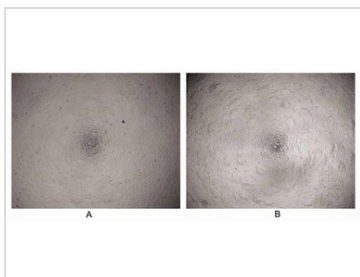
Observed MW 22/24 kDa.

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.



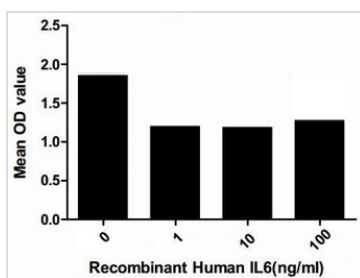
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DATA IMAGES

GTX00095-pro Functional Assay Image

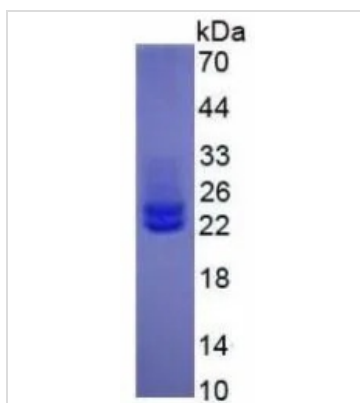
The inhibition effect of GTX00095-pro Human IL6 protein (active) on cell proliferation.

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

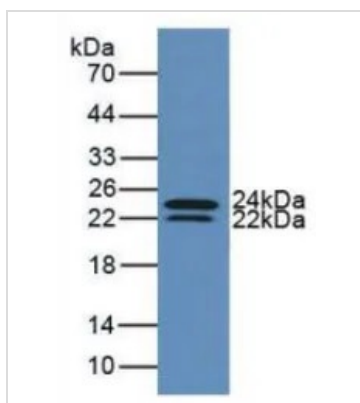
(B) MCF-7 cells cultured in serum-free DMEM, stimulated with 100 ng/ml IL-6 for 96hrs.


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).



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