

Human IL10 protein, His tag (active)

Cat. No. GTX00086-pro

Applications	Functional Assay	Package
Species	Human	10 µg

Applications

Application Note

Interleukin 10 (IL-10), also known as human cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine. IL-10 was initially reported to suppress cytokine secretion, antigen presentation and CD4 T cell activation. Further investigation has shown that IL-10 predominantly inhibits lipopolysaccharide (LPS) mediated induction of the pro-inflammatory cytokines TNF α , IL-1 β , IL-12, and IFN γ made by cells such as macrophages and Th1 T cells. Therefore, THP-1 cells were cultured in 24 well plates at a concentration of 106 cells/ml and activated by LPS (1 µg/ml) in the absence or presence of IL-10 (5 ng/ml, 10 ng/ml) for 24h and production of IL-1 β was determined in the supernatants by cytokine specific ELISA. Activation of THP-1 cells with LPS (1 µg/ml) resulted in high levels of production of IL-1 β and strong inhibitory effects of IL-10 (5 ng/ml, 10 ng/ml) were observed on the production of IL-1 β .

Observed MW (kDa) 18 kDa.

Properties

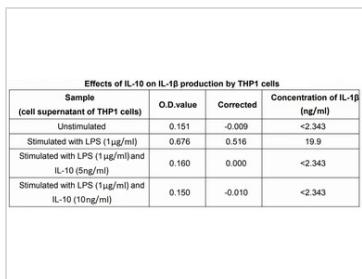
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Ser19~Asn178 (NP_000563.1)
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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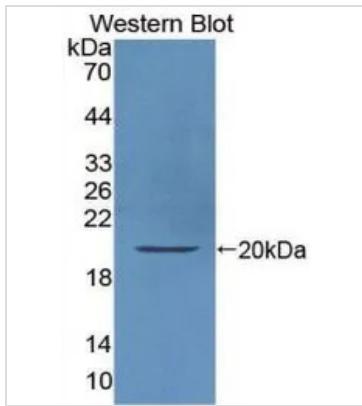
DATA IMAGES



GTX00086-pro Functional Assay Image

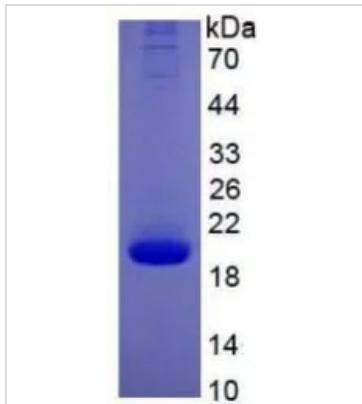
ELISA detection of secreted IL-1 β protein expression from 1 μ g/ml LPS mediated THP-1 cells reduced by GTX00086-pro Human IL10 protein (active).

Recombinant protein concentrations: 5, and 10 ng/ml.



GTX00086-pro Image

WB analysis of GTX00086-pro Human IL10 protein (active).



GTX00086-pro Image

SDS-PAGE analysis of GTX00086-pro Human IL10 protein (active).



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