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## Product Datasheet

### Human IL10 protein, His tag (active), Unconjugated GTX00086-PRO

Article Name	Human IL10 protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00086-PRO
Supplier Catalog Number	GTX00086-pro
Alternative Catalog Number	GTX00086-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	<a href="#">3586</a>
UniProt	<a href="#">P22301</a>
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, ProClin 300.
Expression System	HEK293 cells
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Ser19~Asn178 (NP_000563.1)

Application Notes	<p>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 TNFalpha, IL-1beta, IL-12, and IFNgamma made by cells such as macrophages and Th1 T cells. Therefore, THP-1 cells were cultured in 24 well plates at a concentration of 10<sup>6</sup> 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-1beta 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-1beta and strong inhibitory effects of IL-10 (5 ng/ml, 10 ng/ml) were observed on the production of IL-1beta.</p>
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