

Recombinant Swine IL10

Cat. No. IL10-17S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Swine IL-10 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Pig
Source	Yeast
Description	The IL-10 family of cytokines consists of nine members: IL-10, IL-19, IL-20, IL-22, IL-24, IL-26, IL-28A, IL-28B, and IL-29. These cytokines elicit diverse host defense mechanisms. IL-10 family cytokines are essential for maintaining the integrity and homeostasis of tissue epithelial layers. By promoting innate immune response, members of this family can limit the damage caused by viral and bacterial infections. They can also facilitate the tissue-healing process in injuries caused by infection or inflammation. IL-10 itself is an anti-inflammatory cytokine. IL-10 family cytokines have indispensable functions in many infectious and inflammatory diseases. Across 12 species (Bovine IL-10, Canine IL-10, Chicken IL-10, Equine IL-10, Feline IL-10, Guinea Pig IL-10, Human IL-10, Mouse IL-10, Ovine IL-10, Rabbit IL-10, Swine IL-10, and Turkey IL-10), IL-10 homology varies greatly.
Form	Lyophilized
Molecular Mass	Swine IL-10 has a predicted molecular weight of 18.1 kDa.
AA Sequence	SIKSENSCIH FPTSLPHMLR ELRAAFGPVK SFFQTKDQMG DLLLTGSLLE DFKGYLGCA LSEMIQFYLE DVMPKAESDG EDIKEHVNSL GEKLKTLRLR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	LRRCHQFLPC ENKSKAVEEV KSAFSKLQER GVKAMGEFD IFINYIEAYM TMKMRKN (157)
Purity	>95% as visualized by SDS-PAGE analysis.
Applications	The swine IL-10 protein can be used in cell culture, as a IL-10 ELISA Standard, and as a Western Blot Control.
Storage	Stable for up to twelve months from date of receipt at -20 oC. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20 oC. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

GENE INFORMATION

Gene Name	IL10 interleukin 10 [<i>Sus scrofa</i> (pig)]
Official Symbol	IL10
Synonyms	IL10; CSIF; IL-10; interleukin-10; cytokine synthesis inhibitory factor
Gene ID	397106
mRNA Refseq	NM_214041
Protein Refseq	NP_999206
UniProt ID	Q29055

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Chromosome Location	9
Pathway	African trypanosomiasis; Autoimmune thyroid disease; Chagas disease (American trypanosomiasis)

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