

## Recombinant Swine IL10

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

### SPECIFICATION

<b>Product Overview</b>	Swine IL-10 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
<b>Species</b>	Pig
<b>Source</b>	Yeast
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	Swine IL-10 has a predicted molecular weight of 18.1 kDa.
<b>AA Sequence</b>	SIKSENSCIH FPTSLPHMLR ELRAAFGPVK SFFQTKDQMG DLLLLTGSLLE DFKGYLGCQA LSEMIQFYLE DVMPKAESDG EDIKEHVNSL GEKLTLLRLR

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

LRRCHQFLPC ENKSKAVEEV KSAFSKLQER GVYKAMGEFD 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 \[ Sus scrofa \(pig\) \]](#)

**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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<b>Chromosome Location</b>	9
<b>Pathway</b>	African trypanosomiasis; Autoimmune thyroid disease; Chagas disease (American trypanosomiasis)

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