

Recombinant Equine IL10 Protein (Ser19-Asn178)

Product Information

Cat	IMP-10587
Official Symbol	IL10
Product Overview	Recombinant Equine IL-10 protein (Ser19-Asn178) without tag was expressed in <i>E. coli</i> .
Description	<p>The protein encoded by this gene is a cytokine produced primarily by monocytes and to a lesser extent by lymphocytes. This cytokine has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. This cytokine can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. Mutations in this gene are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.</p>
Expression System	<i>E. coli</i>
Species	Equine
Tag	Tag Free
Predicted N Terminal	Ser19
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
Molecular Mass	Predicted Molecular Mass: 19 kDa SDS-PAGE: 15-18 kDa, reducing conditions
Protein length	Ser19-Asn178
Bio-activity	Measured in a cell proliferation assay using MC/9-2 mouse mast cells. Thompson-Snipes, L. et al. (1991) <i>J. Exp. Med.</i> 173:507. The ED50 for this effect is 0.25-1.5 ng/mL.
Endotoxin	
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
Notes	Noncovalently-linked homodimer
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, 2 to 8 centigrade under sterile conditions after reconstitution.

Reconstitution

Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.