



Product name	Species	Expression system	Cat No.
IL-1 alpha	H	<i>E.coli</i>	ATGP3864
	M	Baculovirus	ATGP3932
	R	<i>E.coli</i>	ATGP3846
	C	Baculovirus	ATGP3976
IL-1 beta	H	<i>E.coli</i>	ILB0701
	M	<i>E.coli</i>	ATGP3398
	C	<i>E.coli</i>	ATGP3956
IL-2(C145S)	H	<i>E.coli</i>	ILB0501
IL-2(C160S)	M	<i>E.coli</i>	ATGP2987
IL-2	R	<i>E.coli</i>	ATGP3889
IL-2(C147S)	C	<i>E.coli</i>	ATGP3544
IL-2(C146S)	F	<i>E.coli</i>	ATGP3611
IL-3	H	<i>E.coli</i>	ILC0702
	H	Baculovirus	ATGP3365
	M	Baculovirus	ATGP3211
IL-4	H	<i>E.coli</i>	ILD0905
	H	<i>E.coli</i>	ATGP3421
	H	HEK293	ATGP3983

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IL-5	H	Baculovirus	ATGP3510
	C	Baculovirus	ATGP3985
IL-6	H	<i>E.coli</i>	ATGP0352
	H	Baculovirus	ATGP3278
	M	Baculovirus	ATGP3154
	R	Baculovirus	ATGP3711
IL-7	C	Baculovirus	ATGP3543
	H	Baculovirus	ATGP3442
IL-9	H	Baculovirus	ATGP3912
IL-12	H	Baculovirus	ATGP2843
	M	Baculovirus	ATGP3739
IL-15	H	<i>E.coli</i>	ATGP3844
	M	<i>E.coli</i>	ATGP3883
IL-21	H	<i>E.coli</i>	ATGP3861
	H	Baculovirus	ATGP3802
	C	<i>E.coli</i>	ATGP3974

H : Human M : Mouse R : Rat C : Canine F : Feline

Biological Activity Data

<p>IL-1 beta (Cat No. ILB0701)</p> <p>Human IL-1 beta/IL-1F2 (ng/ml)</p> <p>Measured in a cell proliferation assay using D10.G4.1 mouse helper T cells. The ED₅₀ range ≤ 12 pg/ml.</p>	<p>IL-2 (C145S) (Cat No. ILB0501)</p> <p>Human IL-2 (C145S) (ng/ml)</p> <p>Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED₅₀ range ≤ 0.65 ng/ml.</p>	<p>IL-2 (C160S) (Cat No. ATGP2987)</p> <p>Mouse IL-2 (C160S) (ng/ml)</p> <p>Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED₅₀ range ≤ 0.9 ng/ml.</p>	<p>IL-3 (Cat No. ATGP3211)</p> <p>Mouse IL-3 (ng/ml)</p> <p>Measured in a cell proliferation assay using BaF3 mouse pro-B cells. The ED₅₀ range ≤ 0.1 ng/ml.</p>
<p>IL-6 (Cat No. ATGP0352)</p> <p>Human IL-6 (ng/ml)</p> <p>Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ range ≤ 0.8 ng/ml.</p>	<p>IL-12 (Cat No. ATGP2843)</p> <p>Human IL-12 (ng/ml)</p> <p>Measured by its ability to enhance IFN-gamma secretion using NK-92 human natural killer cells. The ED₅₀ range ≤ 1 ng/ml.</p>	<p>IL-15 (Cat No. ATGP3844)</p> <p>Human IL-15 (ng/ml)</p> <p>Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED₅₀ range ≤ 1 ng/ml.</p>	<p>IL-21 (Cat No. ATGP3861)</p> <p>Human IL-21 (ng/ml)</p> <p>Measured by its ability to enhance IFN-gamma secretion using NK-92 human natural killer cells. The ED₅₀ range ≤ 4 ng/ml.</p>

References

Shin HW, et al. Role of c-Myb in the regulation of natural killer cell activity. *Biochem Biophys Res Commun.* 2018 Sep 18;503(4):2807-2813. [PMID: 30103947] **Recombinant IL-2 (C145S) protein (Cat No. ILB0501); Human.**
 Lee YJ, et al. Resveratrol Activates Natural Killer Cells through Akt- and mTORC2-Mediated c-Myb Upregulation. *Int J Mol Sci.* 2020 Dec 16;21(24):9575. [PMID: 33339133] **Recombinant IL-2 (C145S) protein (Cat No. ILB0501); Human.**

Lee Y, et al. In vivo Anti-Cancer Effects of Resveratrol Mediated by NK Cell Activation. *J Innate Immun.* 2020 Sep 16:1-13. [PMID: 32937636] **Recombinant IL-2 (C145S) protein (Cat No. ILB0501); Human.**
 Yoon JC, et al. Cell-to-cell contact with hepatitis C virus-infected cells reduces functional capacity of natural killer cells. *J Virol.* 2011 Dec;85(23):12557-69. [PMID: 21937646] **Recombinant IL-15 protein (Cat No. ATGP3844); Human.**