Cytokines & Growth Factors

Driving Activation, Differentiation & Growth

Cytokines and growth factors are the signals cells use to talk to each other. They tell T cells when to activate, stem cells what to become, and tissues how to grow. InnoCyto's recombinant portfolio gives you those signals, produced, purified and functionally validated for reproducible results.

OPTIMIZED FOR CONSISTENT PERFORMANCE

Bioassay-Validated Activity

Every recombinant protein in this collection is functionally tested in a relevant bioassay, not just confirmed by SDS- PAGE, so you can trust dose-response performance.

Low-Endotoxin, Cell Culture Ready

Endotoxin levels are tested and controlled for each protein's intended use, ranging from <1.0 EU/µg down to <0.01 EU/µg depending on the specific protein, so sensitive applications aren't confounded by endotoxin-driven artifacts.

Multiple Expression Systems, Matched to Biology

Proteins are produced in *E. coli*, HEK293, CHO, and Stable CHO lines depending on what best preserves native folding and post-translational modifications, or optimized for effective cost savings.

Format Flexibility

Choose non-tagged or tagged formats (His-tag, Fc-tag) to fit your application, from cell culture supplementation to affinity-based assay development, with sizes scaling from 5 µg to 1 mg bulk orders

Built for the Full Immunology Workflow

Pair these cytokines and growth factors directly with our Flow Cytometry Antibodies, Recombinant Proteins, and In Vivo Star™ Biofunctional Antibodies to build complete activation, differentiation, and immunoprofiling assays without switching vendors.

PRODUCTS

Interleukins
IL-1β (Human)
IL-2 (Human, Mouse)
IL-3 (Human, Mouse)
IL-4 (Human, Mouse)
IL-5 (Human)
IL-6 (Human, Mouse)
IL-7 (Human, Mouse)

Interleukins
IL-10 (Human)
IL-11 (Human)
IL-12 (Human, Mouse)
IL-17E (Human)
IL-18 (Human, Mouse)
IL-33 (Human, Mouse)

Interferons	Species
IFNγ	Human, Mouse

Colony-Stimulating Factors	Species
GM-CSF	Human, Mouse
G-CSF	Human, Mouse
M-CSF	Human, Mouse

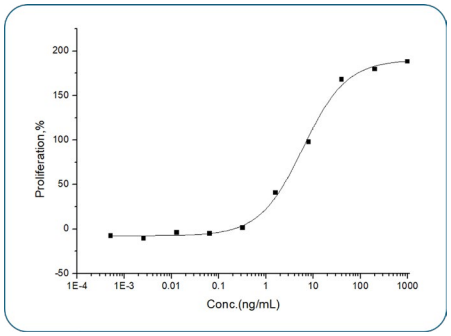
Growth Factors	Species
Beta-NGF	Human
BDNF	Human, Mouse, Rat, Cynomolgus, Canine
BMP2	Human, Mouse, Rat, Rhesus, Canine
BMP4	Human
DLL4	Human
FGFbasic	Human
IGF1	Human
TGF-β1	Human, Rhesus, Cynomolgus, Canine
VEGF-165	Human

Hematopoietic Regulators	Species
Flt3 Ligand	Human
SCF	Human
TPO	Human

Adhesion Molecules	Species
VCAM1 (CD106)	Human

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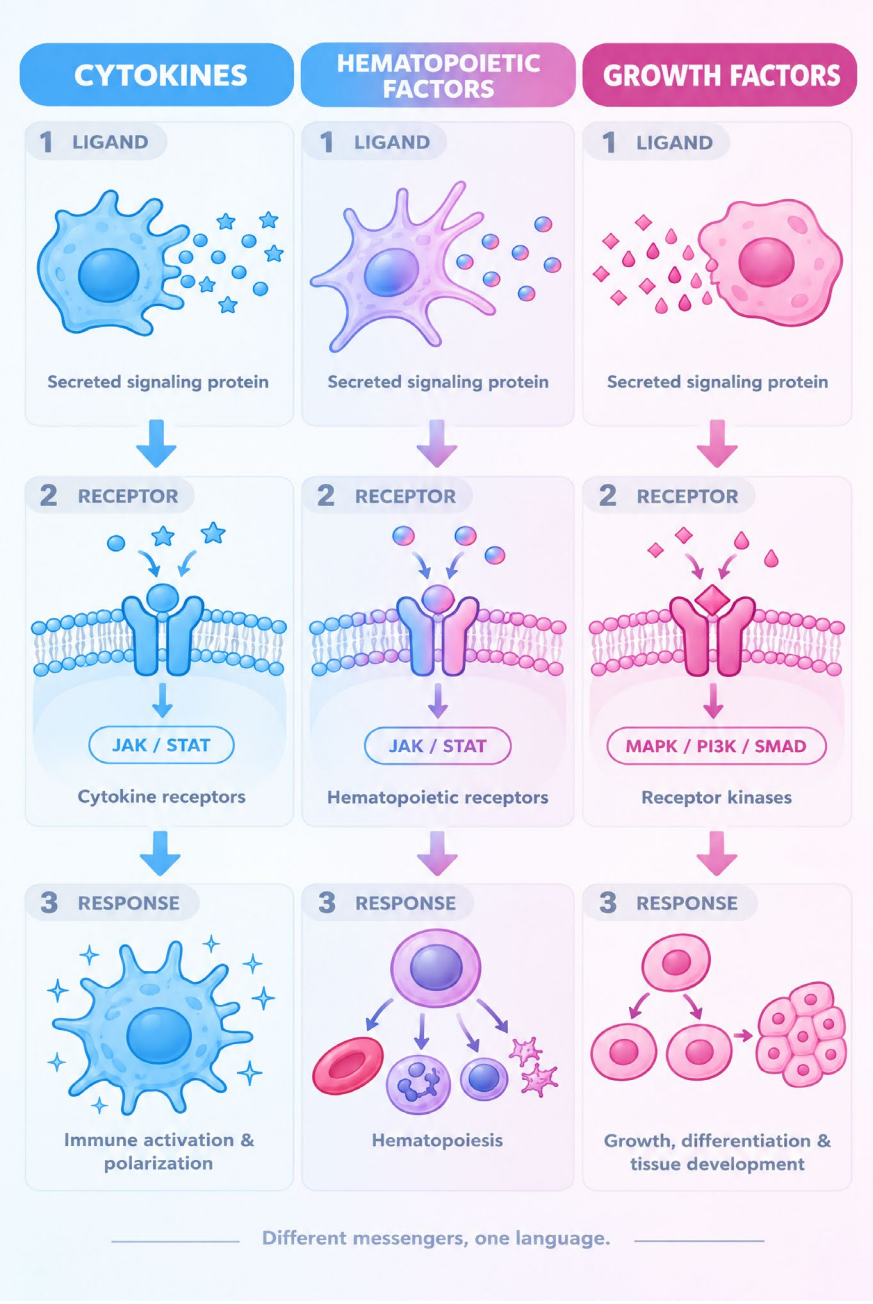
PRODUCT DATA



Bioactivity of Recombinant Human IGF1

Human IGF1 activity is measured using a cell proliferation assay with MCF-7 human breast cancer cells. The ED_{50} for this activity is typically 3-15 ng/mL.

LIGAND ▶ RECEPTOR ▶ RESPONSE FLOW



Cytokines and growth factors are the molecular messengers cells use to communicate, and they all follow the same basic path: a secreted ligand binds its receptor and triggers a cellular response. Cytokines, such as interleukins and interferons, signal through cytokine receptors to drive immune activation and polarization. Growth factors, such as VEGF, IGF1, TGF-β and BMP4, signal through receptor kinases to direct cell growth, differentiation and tissue development. Hematopoietic factors, such as SCF, TPO, Flt3 Ligand and the colony-stimulating factors, bridge the two, guiding stem cells to become the full range of blood and immune cells. InnoCyto's bioassay-validated recombinant proteins give you each of these signals for reproducible results in cell culture, bioassays and *in vivo* studies.

View the growing portfolio at:
https://innocyto.com/web/cytokines-and-growth-factors.php

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