

# ISO<sup>k</sup>ine

ANIMAL-FREE PREMIUM  
GROWTH FACTORS & CYTOKINES



## Introducing the ISO<sup>k</sup>ine PREMIUM Product Range: Pioneering Innovation in ANIMAL-FREE Recombinant Growth Factors & Cytokines

**ORF Genetics** is a global leader in the production of bioactive, **animal-free** recombinant Growth Factors and Cytokines, leveraging our proprietary production technology to build the **Premium** ISO<sup>k</sup>ine product range. Operating from our ISO 9001:2015-certified facility in Reykjavik, Iceland, we utilize renewable geothermal energy to ensure eco-friendly, sustainable production with a minimal carbon footprint.

### ISO<sup>k</sup>ine: Purity and Performance Redefined

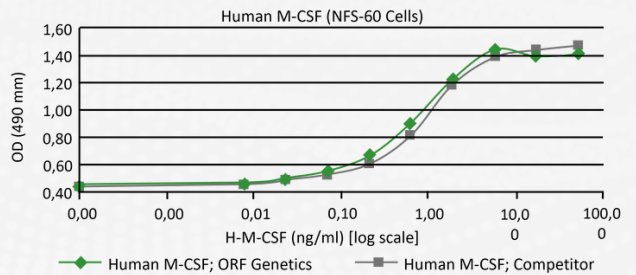
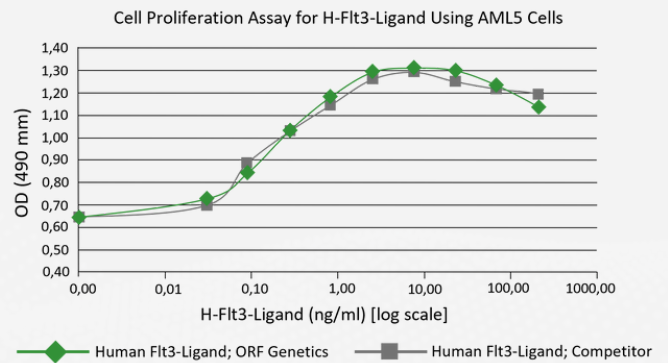
The **ISO<sup>k</sup>ine** product line features highly purified, endotoxin-free recombinant Growth Factors and Cytokines developed specifically for stem cell and cell-based therapies research, regenerative medicine, and organoid production. These products are free of animal and human components, antibiotics, and contaminants such as bacterial endotoxins, viruses, and prions.

Designed to meet the growing demand for high-quality, pure recombinant proteins in regenerative medicine, **ISO<sup>k</sup>ine** Growth Factors are used by researchers worldwide to control and stimulate stem cell behavior in both medical research and large-scale cell cultures. Each batch is rigorously tested by independent third-party organizations for biological activity, ensuring exceptional performance and reproducibility.

### Commitment to Excellence

**ORF Genetics** maintains rigorous standards for traceability, supplier control, and quality testing. We welcome customer audits and ensure full transparency in all processes.

With **ORF Genetics**, you gain a partner dedicated to safety, sustainability, and superior performance, setting new standards in recombinant growth factor production for research, diagnostics, and therapeutic applications.



Each batch of a ISO<sup>k</sup>ine™ Growth factor & Cytokine is tested for bioactivity and verified to have comparable activity to a commercial source.





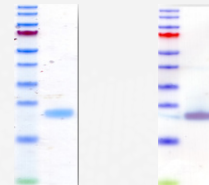
# Why Choose ISOkine products from ORF Genetics?

## Unparalleled Safety and Purity

**Animal-Free, Contaminant-Free:** Recombinant Growth Factors and Cytokines are entirely free of serums, antibiotics, endotoxins, viruses, and unwanted cytokines.

**Endotoxin-Free Assurance:** Industry-leading endotoxin-free levels [ $<0.001$  ng per  $\mu\text{g}$  ( $0.01$  EU/ $\mu\text{g}$ )] prevent unwanted cell responses.

## Purity Identity



## Applications Tailored to Your Needs

**Stem Cell Research:** Designed for expansion, differentiation, and characterization of human immune cells.

**Regenerative Medicine:** Premium-grade Growth Factors compliant with regulatory guidelines for ancillary materials in clinical manufacturing processes.

**Diagnostics:** Reliable immunoassay controls for robust and accurate diagnostic applications.

**Research:** Ideal for preclinical studies, bridging to GMP-grade products for clinical applications.

## Proven Performance and Quality

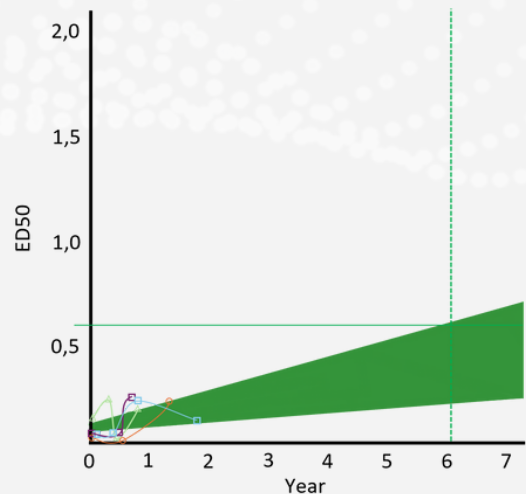
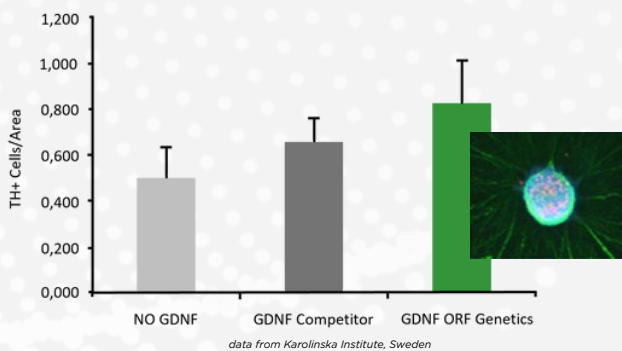
Biological activity comparable or superior to other commercial products, achieved through plant-based eukaryotic protein folding and glycosylation.

Purity exceeding 95%, with rigorous lot-to-lot reproducibility standards.

## Robust Quality Control

Manufactured under ISO 9001:2015 standards, with validated processes, comprehensive documentation, and stringent quality measures.

Longest expiration dates in the industry, supported by real-time and accelerated shelf-life validation for up to 6 years.



## Unparalleled Safety and Purity

**ISOkine** products are produced using a plant-based platform with barley seeds, powered by Iceland's renewable geothermal energy, ensuring an environmentally friendly and sustainable process.

# We Design Plants for Positive Impact

orders: [isokine@orfgenetics.com](mailto:isokine@orfgenetics.com) | technical support: [isokine-marketing@orfgenetics.com](mailto:isokine-marketing@orfgenetics.com)  
or contact your local distributor

[isokine@orfgenetics.com](mailto:isokine@orfgenetics.com) | [www.orfgenetics.com](http://www.orfgenetics.com) | Víkurhvarf 7, 203 Kópavogur, Iceland

Product	Cat No.	Vial Sizes (choose between one size, e.g. 100µg, or pre-aliquoted 10x10µg)	Purity	Endotoxin level
G-CSF, human animal-free, recombinant, Granulocyte Colony Stimulating Factor	IK1800	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
M-CSF, human animal-free, recombinant, Macrophage Colony-Stimulating Factor	IK2400	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
EGF, human animal-free, recombinant Epidermal Growth Factor	IK0100	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
FGFb/FGF2, human, animal-free, recombinant Fibroblast Growth Factor basic	IK0200	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
IGF-1, LR3, human animal-free, recombinant Insulin-like Growth Factor 1 LR3	IK0300	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
VEGF165, human animal-free, recombinant Vascular Endothelial Growth Factor	IK0500	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
KGF/FGF7, human animal-free, recombinant, Keratinocyte Growth Factor	IK0600	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
LIF, human animal-free, recombinant, Leukemia Inhibitory Factor	IK0700	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
LIF, mouse animal-free, recombinant, Leukemia Inhibitory Factor	IK0701	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
GDNF, human animal-free, recombinant, Glial Cell Line-Derived Neurotrophic Factor	IK0900	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
Flt3-ligand, human animal-free, recombinant, FMS-like Tyrosine Kinase 3 Ligand	IK1700	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
IFN gamma, human animal-free, recombinant, Interferon-Gamma	IK2000	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
IL-2, human animal-free, recombinant, Interleukin-2	IK2100	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
IL-4, human animal-free, recombinant, Interleukin-4	IK2300	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
SCF, human animal-free, recombinant, Stem Cell Factor	IK2500	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
SCF, mouse animal-free, recombinant, Stem Cell Factor	IK2501	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
TNF alpha, human animal-free, recombinant, Tumor necrosis factor alpha	IK2600	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
<b>NEW FOR 2026 - CHECK FOR AVAILABILITY</b>				
IL6, human animal-free, recombinant Interleukin 6	IK0400	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg
PDGFbb, human animal-free, recombinant, Platelet-Derived Growth Factor	IK1000	<b>10µg</b> , 5x10µg, 50µg, 10x10µg, <b>100µg</b> , 5x100µg (500ug), 10x100µg, <b>1.000µg</b> , 20x100µg, 2x1.000µg, <b>2.000µg</b> and 50x 100µg, 5x 1.000µg and <b>5.000µg</b> .	>95-98%	<0,01 EU/µg