Innovative technologies for your laboratory

bioTech innovative

ISOkine

ANIMAL-FREE, PREMIUM GROWTH FACTORS & CYTOKINES

Consistent, **animal-free** growth factors & cytokines for cell culture

ORF Genetics has produced animal-free, high-purity recombinant growth factors in barley since 2001. We supply researchers and manufacturers across stem cell research, and regenerative medicine worldwide. **ORF Genetics** is ISO 9001:2015 certified and building toward GMP - a quality path that matters to customers who need documented supply chains. The geothermal greenhouse on Iceland's Reykjanes Peninsula, powered by renewable energy, keeps production consistent year-round.

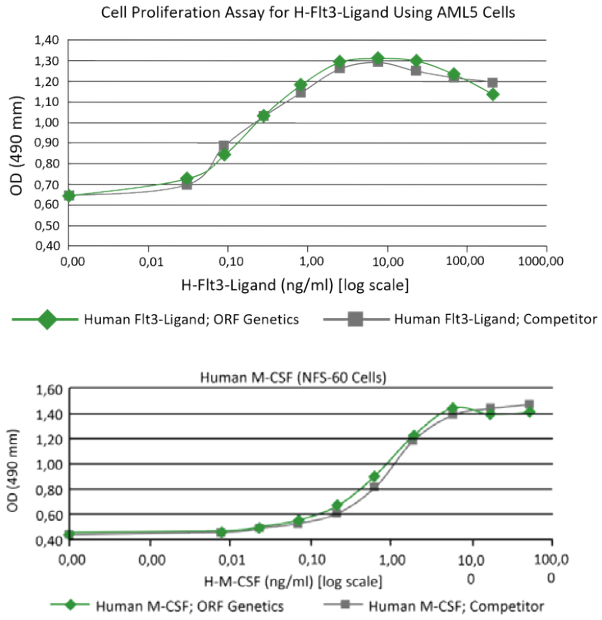
ISOkine®: Purity and Performance Redefined

ISOkine® product line provides Growth Factors and Cytokines >95% pure, animal-free, animal-component-free, endotoxin-free for stem cell culture, organoids, and regenerative medicine. Consistent batch-to-batch quality, reliable supply, at significantly lower cost.

Designed to meet the growing demand for high-quality, pure recombinant proteins in regenerative medicine, ISOkine® Growth Factors & cytokines 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 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.



Each batch of a ISOkine™ Growth factor & Cytokine is tested for bioactivity and verified to have comparable activity to a commercial source.



ORF GENETICS

bsi ISO 9001 Quality Management Systems CERTIFIED

Consistent growth factors ready to scale

Unparalleled Safety and Purity

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

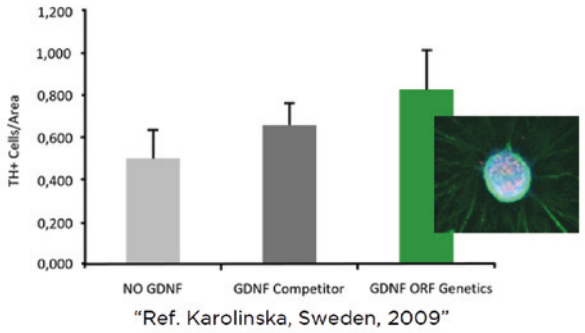
Endotoxin-Free Assurance: Industry-leading endotoxin-free levels [<0.001 ng per µg (0.01 EU/µg)] prevent unwanted cell responses.

Applications Tailored to Your Needs

Stem cell & regenerative research: Human and mouse ESC, iPSC, and progenitor cell culture. ISOkine® Premium provides the endotoxin-free, animal-free factors used to maintain pluripotency, direct differentiation, and expand cell populations.

Cell & gene therapy: T-cell expansion, NK cell culture, and hematopoietic stem-cell protocols for cell therapy workflows. ISOkine® Premium interleukins and cytokines are animal-free and documented with Certificate of Origin - meeting the traceability requirements of pre-clinical development..

Organoid & 3D culture: ntestinal, brain, liver, and lung organoids require a precise cytokine environment. ISOkine® factors - KGF, Noggin, EGF, VEGF - are endotoxin-free and pyrogen-free, reducing confounding inflammatory signals in sensitive 3D systems.

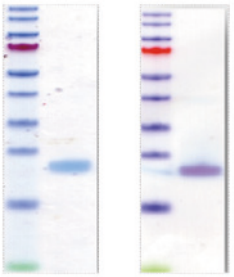


"Ref. Karolinska, Sweden, 2009"

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.

Purity Identity



Proven Performance and Quality

Every batch of ISOkine® Premium is tested for biological activity before shipping and verified to have comparable -or higher - bioactivity than a commercial mammalian-expressed reference source. Bioactivity data is provided with each batch. The plant-expression system preserves native eukaryotic protein folding (PTM) and glycosylation patterns.

Highest shelf-life in the industry

Longest expiration dates in the industry, supported by real-time and accelerated shelf-life validation for up to 6 years. All of our products are lyophilised and tested for bioactivity following resuspension. Combined with the highest purity and absence of contaminants, our products are uniquely stable for long storage periods.

Robust Quality Control

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

bsi ISO 9001 Quality Management Systems CERTIFIED

We Design Plants for Positive Impact

orders: isokine@orfgenetics.com | technical support: isokine-marketing@orfgenetics.com or contact your local distributor



isokine@orfgenetics.com | www.orfgenetics.com | Víkurhvarf 7, 203 Kópavogur, Iceland

ISOkine

Highly pure (>95-98%) **Premium** Growth Factors & Cytokines, **animal-component-free (ACF), endotoxin-free**

ISOkine® PREMIUM Growth Factors and Cytokines are ALL available lyophilized in the following vial format:
10µg, 50µg, 100µg, 1.000µg, 2.000µg and 5.000µg.
To avoid aliquoting upon arrival and additional labelling of your lab vials, you can also order for a similar price pre-aliquoted and lyophilised in individually labelled vials: 5x10µg, (=50µg), 10x10µg (=100µg), 5x100µg (=500µg), 10x100µg (=1 mg), 20x100µg (=2 mg), 2x1.000µg (=2 mg), 50x 100µg (=5 mg), 5x 1.000µg (=5 mg)
GROWTH FACTORS & CYTOKINES, HUMAN High Purity >95-98% ; Endotoxin level <0,01 EU/µg (=non detectable)

GROWTH FACTORS & CYTOKINES, HUMAN

High Purity >95-98% ; Endotoxin level <0,01 EU/µg (=non detectable)

Product	Cat No.	Product	Cat No.	Product	Cat No.
EGF, human, animal-free recombinant Epidermal Growth Factor	IK0100	**FGF2/FGFb**, human, animal-free recombinant Fibroblast Growth Factor basic	IK0200	**IGF-1, LR3**, human, animal-free recombinant Insulin-like Growth Factor 1 LR3	IK0300
VEGF 165, human, animal-free recombinant Vascular Endothelial Growth Factor	IK0500	**KGF/FGF7**, human, animal-free recombinant, Keratinocyte Growth Factor	IK0600	**LIF**, human, animal-free recombiannt, Leukemia Inhibitory Factor	IK0700
GDNF, human, animal-free recombinant, Glial Cell Line-Derived Neurotrophic Factor	IK0900	**PDGFbb,** human, animal-free recombinant, Platelet-Derived Growth Factor	IK1000	**Flt3-ligand**, human, animal-free recombinant, FMS-like Tyrosine Kinase 3 Ligand	IK1700
G-CSF, human, animal-free recombinant, Granulocyte Colony Stimulating Factor	IK1800	**IFN gamma**, human, animal-free recombinant, Interferon-Gamma	IK2000	**IL-2**, human, animal-free recombinant, Interleukin-2	IK2100
IL-4, human, animal-free recombinant, Interleukin-4	IK2300	**M-CSF**, human, animal-free recombinant, Macrophage Colony-Stimulating Factor	IK2400	**SCF**, human, animal-free recombinant, Stem Cell Factor	IK2500
TNF alpha, human, animal-free recombinant, Tumor necrosis factor alpha	IK2600	**TNF alpha**, human, animal-free recombinant, Tumor necrosis factor alpha	IK2600		

GROWTH FACTOR, MOUSE

High Purity >95-98% ; Endotoxin level <0,01 EU/µg (=non detectable)

		LIF, mouse, animal-free recombinant, Leukemia Inhibitory Factor	IK0701		

NEW FOR 2026 - AVAILABLE NOW !

High Purity >95-98% ; Endotoxin level <0,01 EU/µg (=non detectable)

NEW **IL-7**, human, animal-free recombinant, Interleukin 7	IK3200	NEW **IL-15**, human, animal-free recombinant, Interleukin 15	IK2900	NEW **IL-21,** human, animal-free recombinant, Interleukin 21	IK3100
NEW **IL-6**, human, animal-free recombinant, Interleukin 6	IK0400	NEW **NRG-1**, human, animal-free recombinant, Neuregulin 1	IK1100		

UPCOMING IN 2026 - CHECK FOR AVAILABILITY

***IL-10**, human, animal-free* *recombinant, Interleukin 10*	*IK2700*	***IL-18**, human, animal-free* *recombinant, Interleukin 18*	*IKXXXX*	***IL-22**, human, animal-free* *recombinant, Interleukin 22*	*IKXXXX*
***GM-CSF**, human, animal-free* *recombinant, granulocyte-macrophage CSF*	*IK1900*			***Noggin**, human, animal-free* *recombinant, Noggin*	*IK0800*

BioTech a. s.
Kramolínská 955, Letňany
199 00 Praha 9
+ 420 210 323 410
info@ibiotech.cz

BioTech innovative