

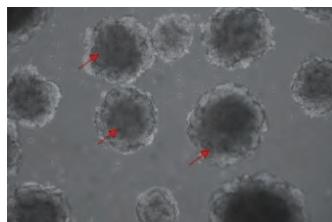
- ✓ >800 cytokine products, >250 cytokine molecules, and >10 GMP-grade cytokines
- ✓ Includes growth factors, cytokines, chemokines, interferons, interleukins, lymphokines, etc.
- ✓ ISO9001:2015 and ISO13485:2016 certified
- ✓ Applications in immune cell culture, stem cell research, organoid culture, etc.
- ✓ High quality with strict quality control
 - High batch-to-batch consistency
 - Low-endotoxin
 - High-bioactivity
 - High-purity



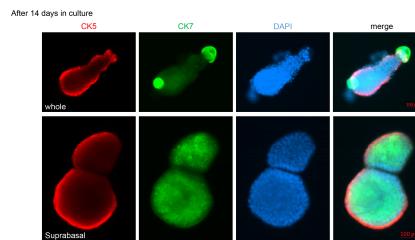
Organoid-related Cytokine Products

Applications in Cell Culture, Organoid Culture, Stem Cell Therapy, etc.

Examples for Organoid Culture



iPSC-derived human vascular organoids were cultured with FGF2 (Cat#: 10014-HNAE), VEGFA , EGF (Cat#: 10605-HNAE). Red arrows represent vascular organoids.



Mouse bladder organoids cultured with KGF/FGF-7 (Cat#: 50394-M07E).

High Quality with Strict Quality Control

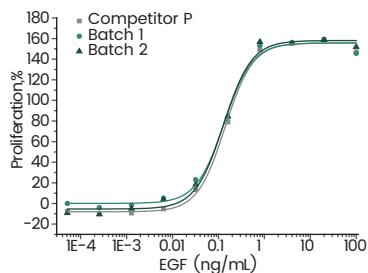
High-bioactivity, High Batch-to-batch Consistency, High-purity, Low-endotoxin

10605-HNAE Human EGF

SDS-PAGE&SEC-HPLC ≥ 95 % ; Endotoxin :< 5 EU/mg

Comparison with World-famous Brand's Product

High Batch-to-batch Consistency



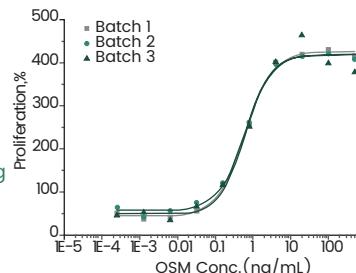
Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblasts.

GMP-10452-HNAH Human OSM

SDS-PAGE&SEC-HPLC ≥ 95 % ; Endotoxin :< 5 EU/mg

High Batch-to-batch Consistency

- Host Cell Protein Testing
- Host Cell DNA Testing
- Mycoplasma Testing
- Sterility Testing
- Human-derived Virus Testing
- Abnormal Toxicity Testing



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The specific activity of recombinant human OSM is >30,000 Units/μg, which is calibrated against the human OSM WHO International Standard (NIBSC code: 93/564).

Common Cytokines Products for Organoid Culture (Partial)

Cat#	Molecule	Intestinal organoids	Gastric organoids	Liver organoids	Lung organoids	Breast organoids	Brain organoids	Heart organoids	Pancreatic organoids	Prostate organoids
10605-HNAE	EGF	✓	✓	✓		✓			✓	✓
10573-HNAE	FGF10		✓	✓	✓	✓		✓	✓	✓
10014-HNAE	FGF2	✓		✓	✓	✓	✓	✓	✓	✓
10210-H07E	FGF7				✓					
10463-HNAS	HGF			✓						
10429-HNAH	INHBA			✓	✓			✓		✓
14890-HNAH	LIF							✓		
10452-HNAH	OSM			✓						
11083-HNAS	RSPO1	✓	✓	✓	✓	✓			✓	✓
10804-HNAC	TGFB1			✓						

Other Cytokines Products for Organoid Culture (Partial)

Cat#	Molecule	Species	Tag	Purity
10426-HNAE	BMP2	Human, Mouse, Rat, Rhesus, Canine	Native	SDS-PAGE≥ 95 %
10007-HNAH	CSF3	Human	Native	SDS-PAGE≥ 95 %
HPLC-57336-MNAH	CSF3	Mouse	Native	SDS-PAGE & SEC-HPLC≥ 95 %
10170-H08H	DKK1	Human	C-His	SDS-PAGE≥ 90 %
50037-M07E	FGF2	Mouse	N-His	SDS-PAGE≥ 95 %
50394-M07E	FGF7	Mouse	N-His	SDS-PAGE≥ 90 %
50038-MNAH	HGF	Mouse	Native	SDS-PAGE≥ 95 %
11858-HNAE	IL3	Human	Native	SDS-PAGE≥ 95 %
51066-MNAH	IL3	Mouse	Native	SDS-PAGE≥ 95 %
10451-H08B	KITLG	Human	C-His	SDS-PAGE≥ 90 %
50487-M08B	KITLG	Mouse	C-His	SDS-PAGE≥ 95 %
14890-H08H	LIF	Human	C-His	SDS-PAGE≥ 95 %
50756-MNAH	LIF	Mouse	Native	SDS-PAGE≥ 95 %
10267-HNAH	NOG	Human	Native	SDS-PAGE≥ 95 %
10452-H08H	OSM	Human	C-His	SDS-PAGE≥ 95 %
50112-MNAE	OSM	Mouse	Native	SDS-PAGE≥ 95 %
10275-H08B	PRL	Human	C-His	SDS-PAGE≥ 90 %
11083-H08H	RSPO1	Human	C-His	SDS-PAGE≥ 95 %
50316-M08S	RSPO1	Mouse	C-His	SDS-PAGE≥ 95 %
11185-H08H1	RSPO3	Human	C-His	SDS-PAGE≥ 95 %
10008-HNAH	VEGF121	Human	Native	SDS-PAGE & SEC-HPLC≥ 95 %
11066-HNAH	VEGF165	Human, Cynomolgus	Native	SDS-PAGE≥ 95 %; SEC-HPLC≥ 90 %
10424-H08H	VTN	Human	C-His	SDS-PAGE≥ 95 %

Citations of Products Related to Stem Cell Differentiation and Organoid Culture in Journals (Partial)

Article	Molecule	Journal	Date
Evaluation of B7-H3 Targeted Immunotherapy in a 3D Organoid Model of Craniopharyngioma	EGF FGF10	Biomolecules	2022
Bach2 Deficiency Promotes Intestinal Epithelial Regeneration by Accelerating DNA Repair in Intestinal Stem Cells	EGF Noggin R-Spondin 1	Stem Cell Reports	2020
PRC2 Specifies Ectoderm Lineages and Maintains Pluripotency in Primed but Not Naïve ESCs	INHBA FGF2 VEGF121	Nature Communications	2017