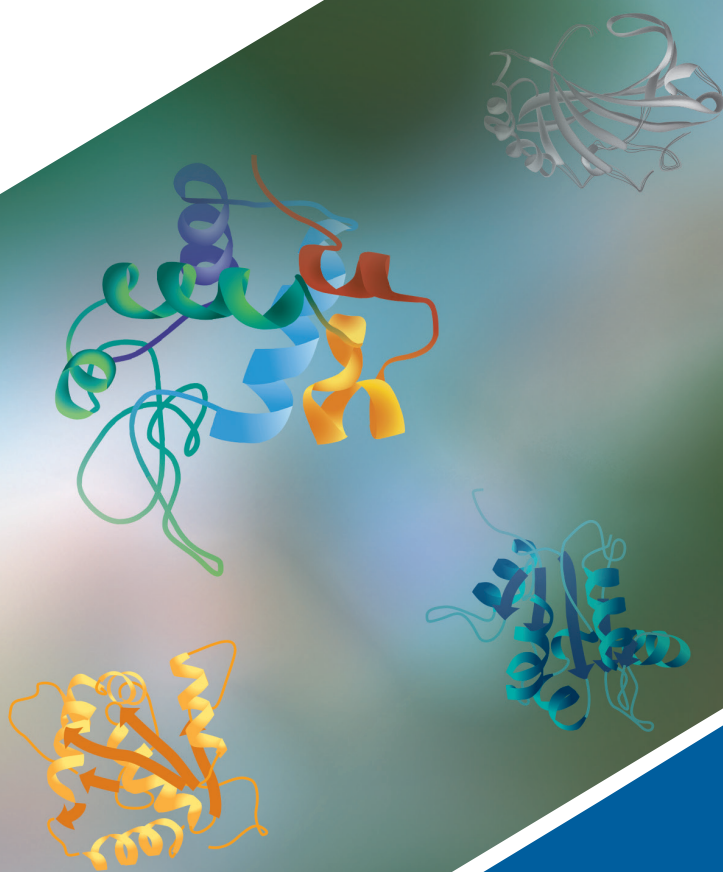


GMP-grade Proteins



R&D Systems Quality Proteins

R&D Systems understands that a reliable and consistent supply of GMP cytokines is a crucial requirement for cell therapy manufacturers. Our stringent quality control and mature quality systems document all manufacturing and quality processes to ensure that we meet your needs. We have worked with cell therapy partners from the early stages of development through clinical trials, and we have experience to help you navigate regulatory requirements as you move forward.

Guaranteed Performance

We back up our performance specifications with relevant bioassay data and test every lot prior to release to ensure consistent performance. All GMP proteins come with a lot-specific CoFA and require sign-off by our QA department before shipment.

Manufactured by Scientists, for Scientists

Our team of over 100 protein scientists brings the most experience and know-how in the industry to the development and production of our proteins.

For Cell Therapy and Regenerative Medicine

Ideal for Translational Research

Both research and GMP proteins are available, easing the transition from research to clinical applications.

Documentation

ISO-9001-, ISO 13485-certified facility, lot-to-lot consistency, materials traceability, employee training documentation, equipment maintenance and monitoring records, Drug Master Files, and more.

Regulatory Guidelines Followed

GMP proteins are manufactured in compliance of the applicable sections of World Health Organization:

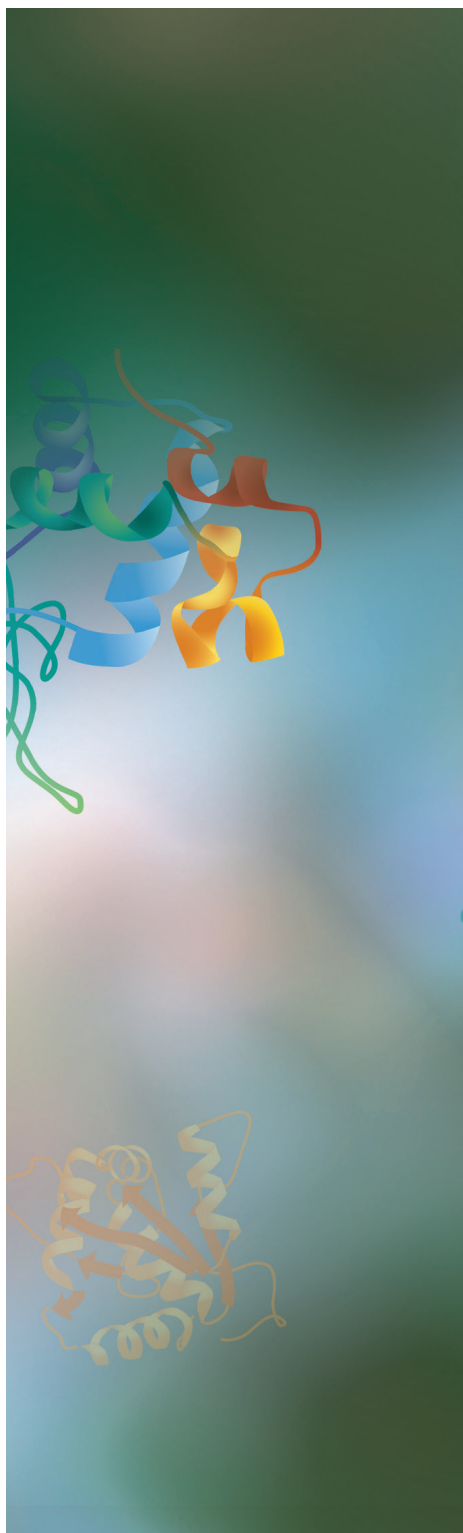
1. TRS, No 822, 1992 Annex 1 Good Manufacturing Practices for biological products
2. USP Chapter 1043, Ancillary Materials for Cell, Gene, and Tissue-Engineered Products
3. USP Chapter 92, Cytokines used in Cell Therapy Manufacturing

Quality Control Testing

Mass spectrometry, HPLC, SDS-PAGE, endotoxin, presence of host cell content, adventitious agents, and more.

Satisfied Clients

Clients include more than 100 pharmaceutical and biotech companies and we regularly welcome audits of our facilities.



What we offer

Cytokines and Growth Factors

The largest selection of proteins available for use in stem cell and immune cell therapy.

LR3 IGF-I

A more potent alternative to insulin as a media supplement for large-scale bioprocessing.

The Scale You Need

We offer microgram amounts for preclinical and validation purposes, as well as gram scale sizes for manufacturing.

Animal-Free

We have a dedicated facility utilizing animal-free components, equipment, labware, and offer full traceability of all reagents used in our manufacturing processes.

GMP-grade Protein	Catalog #
Activin A*	338-GMP
BDNF**	248-GMP
BMP-2	355-GMP
BMP-4	314-GMP
BMP-7	354-GMP
EGF	236-GMP
Dkk-1	5439-GMP
FGF basic	233-GMP
Fibronectin	4305-GMP
Flt-3 Ligand	308-GMP
GDF-8/Myostatin*	788-GMP
GDF-11*	1958-GMP
GDNF	212-GMP
GM-CSF	215-GMP
Hepsin	4776-GMP
HGF	294-GMP

GMP-grade Protein	Catalog #
IFN- γ	285-GMP
IGF-I	291-GMP
IL-1 β /IL-1F2	201-GMP
IL-2	202-GMP
IL-3	203-GMP
IL-4	204-GMP
IL-6	206-GMP
IL-7	207-GMP
IL-11	218-GMP
IL-12	219-GMP
IL-15	247-GMP
IL-17E	1258-GMP
KGF/FGF-7	251-GMP
LR3 IGF-I	8335-GMP
M-CSF	216-GMP
Noggin	6057-GMP

GMP-grade Protein	Catalog #
Noggin Fc Chimera	3344-GMP
NRG1- β 1/HRG1- β 1	396-GMP
NT-3	267-GMP
NT-4	268-GMP
PDGF-BB	220-GMP
Periostin/OSF-2	3548-GMP
SCF/c-kit Ligand	255-GMP
Sonic Hedgehog/Shh N-Terminus	1314-GMP
Sonic Hedgehog/Shh (C24II) N-Terminus	1845-GMP
TGF- β 1	240-GMP
TGF- β 3	243-GMP
TNF- α	210-GMP
VEGF	293-GMP
Wnt-3a	5036-GMP

All GMP proteins listed are Human.

*Also Mouse/Rat. **Also Mouse/Rat/Canine/Equine.



R&D SYSTEMS

NOVUS
BIOLOGICALS

TOCRIS

protein**simple**

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