

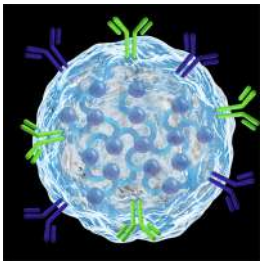
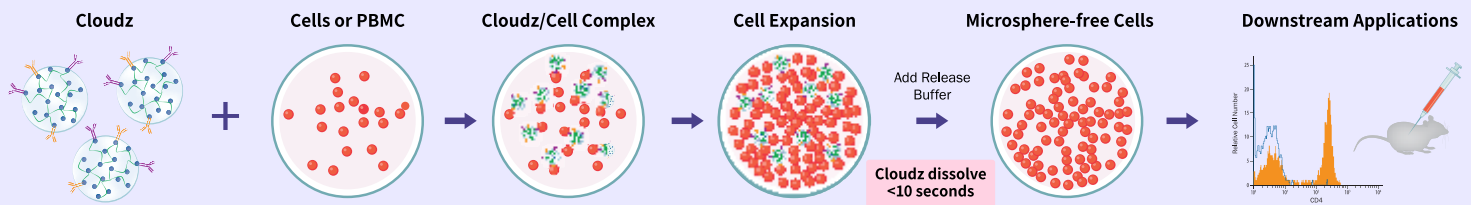
Cell Activation kits for Immunotherapy

R&D SYSTEMS
a biotechne brand

Cloudz™ Cell Activation Kits

- ✓ Magnetic bead-free (no beads to remove) – 공정의 단순화
- ✓ Simple
- ✓ Ready to Use with cytokines, growth factors and media from R&D systems

Beads-Free



- Cloudz™ Human **CD3/CD28** Cell Expansion Kit**
- Cloudz™ Human **NK Cell** Expansion Kit
- Cloudz™ Human **Regulatory T Cell** (Treg) Expansion Kit**

** GMP 제품이용가능

ExCellerate Media for Immune Cell Culture



ExCellerate™
Human T Cell Expansion
Media, Xeno-Free
#CCM030



ExCellerate™
Human NK Cell Expansion
Media, Xeno-Free
#CCM032



ExCellerate™
B Cell Media, Xeno-Free
#CCM031



GMP Immune Cell Culture Reagents

• Proteins

• Cell Activation/ Expansion Kits

➤ GMP Recombinant Proteins

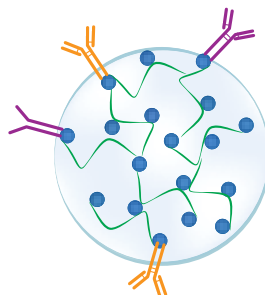
- ① Global 제약회사인 GSK(GlaxoSmithKline)에 GMP Protein 공급! (Since 2002)
- ② Cell Therapy 연구에 사용할 수 있도록 USP Chapter <1043>, USP Chapter <92>에 따라 만들어진 제품들!
- ③ ISO9001, ISO13485
- ④ 가장 많은 종류의 GMP product 보유!

For Immune Cell Culture

Cell 종류	Cytokines for Differentiation and Expansion
B cell	BAFF, CD40 Ligand, IFN-gamma, IL-2, IL-4, IL-10, IL-21
Dendritic Cell	Flt3-Ligand, GM-CSF, IL-3, IL-4, Thrombopoietin, TNF-alpha
Macrophages	M-CSF, IFN-gamma, IL-4, IL-13
Myeloid-derived Suppressor Cells	G-CSF, GM-CSF, IL-4, IL-6, IL-10, IL-13
NK Cell	IL-2, IL-12, IL-15, IL-18, IL-21
CIK Cell	IL-2, IFN-gamma
T Cell	IL-2, CD3 Ab, CD28 Ab
Th1 Cells	IFN-gamma, IL-2, IL-12, IL-27, IL-4 Ab, CD3 Ab, CD28 Ab
Th2 Cells	IL-2, IL-4, CD3 Ab, CD28 Ab, IFN-gamma Ab, IL-12 Ab
Th17 Cells	IL-1 beta, IL-6, IL-21, IL-23, TGF-beta1, CD3 Ab, CD28 Ab, IFN-gamma Ab, IL-4 Ab
Treg Cell	IL-2, TGF-beta1, CD3 Ab, CD28 Ab



GMP Protein	Cat #		
	Human	Mouse	Rat
IL-1 beta	201-LB	401-ML	501-RL
IL-2	202-GMP	402-ML	502-RL
IL-4	204-GMP	404-ML	504-RL
IL-6	206-GMP	406-ML	506-RL
IL-10	1064-IL	417-ML	
IL-12	219-IL, 10018-IL	419-ML, 10051-ML	1760-RL
IL-13	213-ILB	413-ML	1945-RL
IL-15	247-GMP	447-ML	
IL-18	9124-IL, B001-5	9139-IL	B002-5
IL-21	8879-IL	594-ML	
IL-23	1290-IL	1887-ML	3136-RL
IL-27	2526-IL	2799-ML	
IFN-gamma	285-GMP	485-MI	585-IF
TNF-alpha	210-GMP	410-MT, 410-TRNC	510-RT
TGF-beta1	240-GMP	7666-MB	
Thrombopoietin	288-TPE, 288-TPN	488-TO	7864-TP
M-CSF	216-GMP	416-ML	
GM-CSF	215-GM	415-ML	518-GM
G-CSF	214-CS	414-CS	
CD40 Ligand/TNFSF5	6420-CL, 2706-CL	8230-CL	8414-CL
BAFF/Blys/TNFSF13B	7537-BF, 2149-BF	8876-BF	
Flt-3 Ligand	308-FK, 308-FKN	427-FL	



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