

- Proteins
- T Cell Activation Kit
- Cell Selection Kits

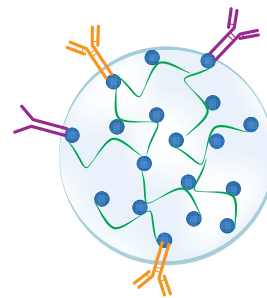
▶ GMP Recombinant Proteins

- 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 202-IL	402-ML	502-RL
IL-4	204-GMP 204-IL, 6507-IL	404-ML	504-RL
IL-6	206-GMP 206-IL, 7270-IL	406-ML	506-RL
IL-10	1064-IL	417-ML	
IL-12	219-GMP 219-IL, 10018-IL	419-ML, 10051-ML	1760-RL
IL-13	213-ILB	413-ML	1945-RL
IL-15	247-GMP 247-ILB	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 285-IF, 10067-IF	485-MI	585-IF
TNF-alpha	210-GMP 210-TA	410-MT, 410-TRNC	510-RT
TGF-beta1	240-GMP 7754-BH, 240-B	7666-MB	
Thrombopoietin	288-TPE, 288-TPN	488-TO	7864-TP
M-CSF	216-GMP 216-MC, 216-MCC	416-ML	
GM-CSF	215-GM 215-GM, 7954-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	

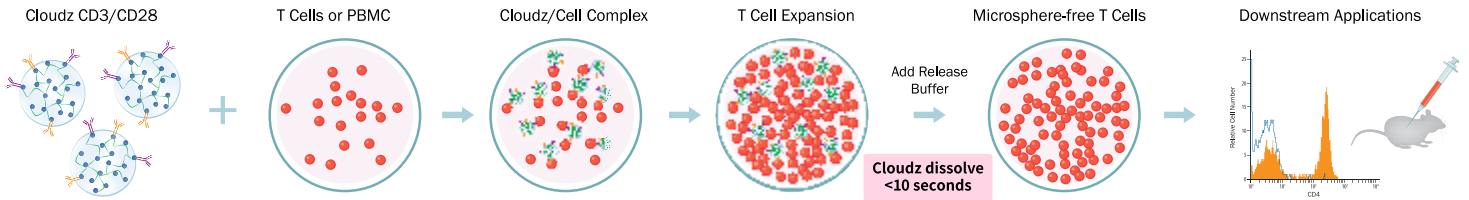


R&D SYSTEMS
a biotechne® brand



▶ GMP Cloudz™ T Cell Activation Kit - CD3/CD28

- Magnetic bead-Free (no beads to remove) - 공정의 단순화
- Robust T cell activation & expansion



Order Information

Description	Cat #	Size		
Hyper-Act CD3/CD28	CDZ4023	1 Kit	신제품	GMP
ExCellerate Human T Cell Expansion Media, Xeno-Free (Optimized for use with the Cloudz™ T Cell Activation Kit)	CCM030	500mL	신제품	

▶ GMP Cloudz™ Cell Selection Kits

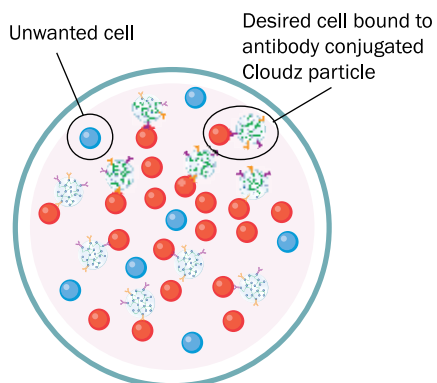
- Size exclusion-based cell Selection
- Positive Selection without Magnet
- 다양한 Clinical expansion platform들과 호환 가능
- 공정의 단순화
- 원하는 Cell Population에 대해 Customizing 가능



Principle of The Technology

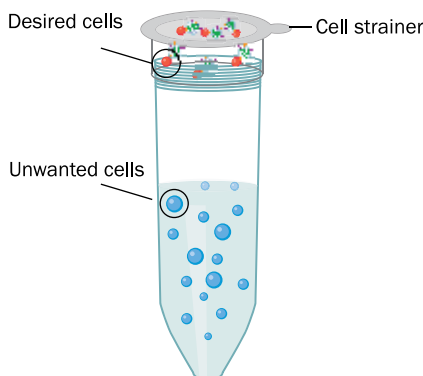
Step1:

Cloudz particles bind desired cell population



Step2:

Desired cells are retained



Step3:

Cloudz particles are dissolved and desired cells are collected

