

# Stem Cell Products with biotechne®

## Proteins for Expansion

Recombinant Proteins	Catalog #			ProDots® Proteins, Catalog #
	Human	Mouse	Rat	Human
Activin A	338-AC	338-AC	338-AC	PRD338
BMP-4	314-BP	5020-BP		PRD314
FGF basic	233-FB	3139-FB	3339-FB	PRD233
LIF	7734-LF	8878-LF		PRD7734
Sonic Hedgehog/ Shh	1845-SH	464-SH		
Wnt-3a	5036-WIN	1324-WIN		
Noggin	6057-WIN	1967-NG		
EGF	236-EG	2028-EG	3214-EG	PRD236
R-Spondin1	4645-RS	3474-RS 7150-RS		PRD4645

## Small molecules for Expansion

Cat#	Products	Description
#4423	CHIR99021	GSK-3 Inhibitor
#2634	DAPT	γ-secretase Inhibitor
#3742	RepSox	TGF-βR1 Inhibitor
#1614	SB431542	TGF-βR1, ALK4 and ALK7 Inhibitor
#1254	γ-27632	p160ROCK Inhibitor

## Stem Cell Qualified ECM

Products	Cat#
Cultrex® Stem Cell Qualified Reduced GF BME PathClear®, 2 x 5mL	3434-010-02
Cultrex® Stem Cell Qualified Reduced GF BME PathClear®, 1 mL	3434-001-02
Cultrex® Stem Cell Qualified Reduced GF BME PathClear®, 5 mL	3434-005-02
Cultrex® Stem Cell Qualified Laminin I, PathClear®, 1 mg,	3400-010-03
Cultrex® Stem Cell Qualified Human Fibronectin, PathClear®, 1 mg	3420-001-03
Cultrex® Stem Cell Qualified Human Vitronectin, PathClear®, 200 ug	3421-001-03

## 3D Culture ECM

Products	Cat#
Cultrex® Reduced GF BME, Type 2, PathClear®, 1 mL	3533-001-02
Cultrex® Reduced GF BME, Type 2, PathClear®, 5 mL	3533-005-02

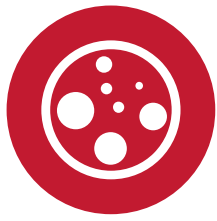
PathClear® - Negative by PCR test for mycoplasma; 17 bacterial and virus strains typically included in mouse antibody production (MAP) testing, plus 13 additional murine infectious agents including LDEV, for a total of 31 organisms and viruses

## GMP-grade Proteins for Stem Cell Therapy Research

Recombinant Human	Catalog #
<b>Activin A</b>	338-GMP
BMP-2	355-GMP
BMP-4	314-GMP
Dkk-1	5439-GMP
<b>EGF</b>	236-GMP
<b>FGF-basic</b>	233-GMP
Flt-3 Ligand	308-GMP
HGF	294-GMP
IGF-I	291-GMP
IL-3	203-GMP
IL-6	206-GMP
KGF/FGF-7	251-GMP

Recombinant Human	Catalog #
Noggin	6057-GMP
Noggin Fc Chimera	3344-GMP
NT-4	268-GMP
PDGF-BB	220-GMP
SCF/c-kit Ligand	255-GMP
Sonic Hedgehog/Shh (C24II) N-Terminus	1845-GMP
Sonic Hedgehog/Shh N-Terminus	1314-GMP
TGF-b1	240-GMP
TGF-b3	243-GMP
VEGF	293-GMP
Wnt-3a	5036-GMP





# StemXVivo®

쉽고 정확한 분화 실험을 위한 필수품

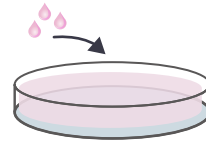
WOONGBEE

## Benefit

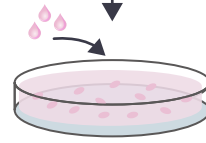
- Defined Media & Supplement
- Reduced Experiment Variation
- Optimized Protocol



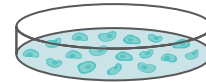
## Procedure



Cell을 Base Media에  
풀고 Confluency  
50~70% 되도록 Culture

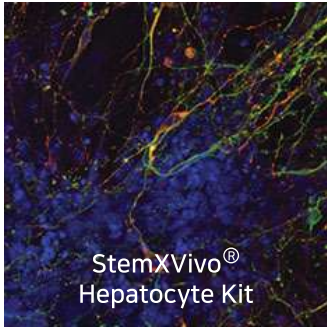


Differentiation Media로  
Change 3~4 일에 한번씩  
Media Change



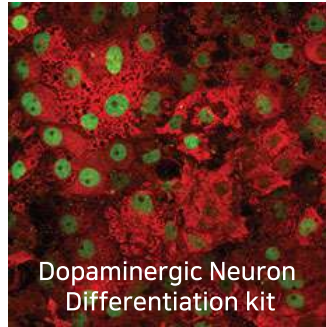
14~21일 후 분화 끝

## Result



StemXVivo®  
Hepatocyte Kit

Albumin  
EBP- $\alpha$



Dopaminergic Neuron  
Differentiation kit

Tyrosine Hydroxylase  
 $\beta$ -tubulin  
DAPI



StemXVivo®  
Cardiomyocyte Kit

Cardiac Troponin T  
DAPI

Name	Cat#	Name	Cat#
Neuronal Progenitor Kit	CS035	h/m/r Adipogenic/Osteogenic Base Media	CCM007
Cariomyocyte Kit	SC032B	h/m/r Adipogenic Supplement	CCM011
Hepatocyte Kit	SC033	h Osteogenic Supplement	CCM008
Ectoderm Kit	SC031B	m/r Osteogenic Supplement	CCM009
Mesoderm Kit	SC030B	h/m/r Chondrogenic Base Media	CCM005
Endoderm Kit	SC019B	h/m Chondrogenic Supplement	CCM006
h/m Dopaminergic Neuron Differentiation Kit	SC001B	r Chondrogenic Supplement	CCM020
m Oligodendrocyte Differentiation kit	SC004		