



SMALL MOLECULES FOR STEM CELL RESEARCH

A 83-01

Potent and selective ALK4, 5 and 7 inhibitor. Prevents phosphorylation of Smad2/3 and growth inhibition induced by TGFβ2. Inhibits differentiation of rat induced pluripotent stem cells and increases clonal expansion efficiency. Together with AMI-5, A83-01 enabled Oct4-induced reprogramming of mouse embryonic fibroblasts.

10 mg \$ 105

CHIR99021

GSK-3 inhibitor. Improves reprogramming efficiency and enhances the differentiation to cardiomyocyte and neurocyte.

5 mg \$ 89

DAPT

γ-Secretase Inhibitor. Enhances the differentiation from PSCs to neurocyte.

10 mg \$ 120

Dexamethasone

A synthetic anti-inflammatory glucocorticoid. Induces apoptosis in a variety of cell types. Induces osteogenic differentiation of human mesenchymal stem cells.

100 mg \$ 80

Dorsomorphin

AMPK inhibitor. Enhances the differentiation from PSCs from cardiomyocyte. Along with SB 431542 and CHIR99021, enhances the differentiation to PSCs.

10 mg \$ 140

Forskolin

Useful activator of adenylate cyclase. Induces stem cell neuronal differentiation. Cell permeable and active in vivo.

10 mg \$ 116

25 mg \$ 174

IBMX

Pan-specific inhibitor of phosphodiesterases. Inhibition of PDEs leads to increased concentration of intracellular cAMP which activates PKA2. Increase cell differentiation, decrease proliferation, and induce apoptosis.

100 mg \$ 38

250 mg \$ 80

trans-ISRIB

Integrated stress response inhibitor.

5 mg \$ 89

IWP-2

PORCN inhibitor; inhibits processing and secretion of Wnt. Enhances the differentiation from PSCs to cardiomyocyte.

10 mg \$ 97

IWR-1-endo

Potent inhibitor of Wnt signaling. Promotes self-renewal and maintains pluripotency of human embryonic stem cells. Promotes differentiation of pluripotent stem cells into cardiomyocytes

10 mg \$ 110

LDN 193189

Potent and selective inhibitor of ALK2 and ALK3, thereby inhibiting SMAD1/5/8 phosphorylation. Promotes neuronal differentiation of human pluripotent stem cells,

10 mg \$ 180

PD325901

Selective non-ATP competitive MEK inhibitor. Enhances self-renewal of embryonic stem cells. In combination with vitamin C, synergistically induces hypomethylation of mouse embryonic stem cells.

10 mg \$ 110

RepSox

Potent inhibitor of the TGF-β type I receptor (ALK5), RepSox can replace Sox2 in reprogramming adult cells into pluripotent stem cells via induction of Nanog transcription. It was able to convert astrocytes into neuronal cells as part of a small molecule cocktail (along with valproic acid and CHIR99021).

10 mg \$ 140

Rosiglitazone

Prototypical TZD antidiabetic agent. Potent and selective PPARγ agonist. Induces differentiation of pluripotent stem cells into adipocytes5.

10 mg \$ 68

SB431542

TGF-βRI, ALK4 and ALK7 inhibitor. Improves reprogramming efficiency along with PO0325901 or thiazovivin.

10 mg \$ 110

Thiazovivin

TGF-βRI, ALK4 and ALK7 inhibitor. Improves reprogramming efficiency along with PO0325901 or thiazovivin.

5 mg \$ 118

XAV 939

Tankyrase inhibitor. Antagonizes Wnt signaling downstream of receptor activation via stabilization of axin, a negative regulator of β-catenin. Robustly induces cardiomyogenesis of stem cells.

10 mg \$ 90

Y-27632

P160ROCK inhibitor. Blocks apoptosis of dissociated PSCs and improves survival rate of cryopreserved PSCs.

5 mg \$ 120

25 mg \$ 360





Cytokines, Growth Factors and other Recombinant Proteins

Recombinant Human Activin-A, Animal-free

18585-36 10 µg \$ 251

Recombinant Human BCL2

NU03051 100 µg \$ 426

Recombinant Human CDK2/ Cyclin A2 Complex

NU03042-1 10 µg \$ 277

Recombinant Human CDK2/ Cyclin E1 Complex

NU03041-1 10 µg \$ 277

Recombinant Human FGF-basic, Animal-free

NU0005-1 10 µg \$ 99

Recombinant Human Insulin, Animal-free

12878-86 50 mg \$ 90

Recombinant Human KGF (FGF-7), Animal-free

21185-34 10 µg \$ 245

Recombinant Human Kras Wild-Type (WT)

GST-Tag	NU03043-1	50 µg	\$ 362
GST-Tag, GDP Loaded	NU03043-1G	50 µg	\$ 394
GST-Tag, GppNHp Loaded	NU03043-1GP	50 µg	\$ 394

Recombinant Human Kras (G12C)

GST-Tag	NU03044-1	50 µg	\$ 362
GST-Tag, GDP Loaded	NU03044-1G	50 µg	\$ 394
GST-Tag, GppNHp Loaded	NU03044-1GP	50 µg	\$ 394
His-Tag	NU03019	50 µg	\$ 362

Recombinant Human Kras (G12D)

GST-Tag	NU03045-1	50 µg	\$ 362
GST-Tag, GDP Loaded	NU03045-1G	50 µg	\$ 394
GST-Tag, GppNHp Loaded	NU03045-1GP	50 µg	\$ 394

Recombinant Human Kras (G12R)

GST-Tag	NU03046-1	50 µg	\$ 362
GST-Tag, GDP Loaded	NU03046-1G	50 µg	\$ 394
GST-Tag, GppNHp Loaded	NU03046-1GP	50 µg	\$ 394

Recombinant Human Kras (G12V)

GST-Tag	NU03047-1	50 µg	\$ 362
GST-Tag, GDP Loaded	NU03047-1G	50 µg	\$ 394
GST-Tag, GppNHp Loaded	NU03047-1GP	50 µg	\$ 394





Cytokines, Growth Factors and other Recombinant Proteins

Recombinant Human LIF

NU0013-1 1.0 ml, 10e6 units/ml \$ 258

Recombinant Mouse LIF

NU0012-1 1.0 ml, 10e6 units/ml \$ 258

Recombinant Human MALT1

NU03055-1 20 µg \$ 245

Recombinant Human ME1

NU03052-1 10 µg \$ 266

Recombinant Human ME2

NU03053-1 10 µg \$ 266

Recombinant Human ME3

NU03054-1 10 µg \$ 266

Recombinant Human MNK2

NU03023-2 10 µg \$ 139

Recombinant Human MNK2, His-tagged

NU03024-2 10 µg \$ 139

Recombinant Human MNK2 (D228G)

NU03049-2 10 µg \$ 139

Recombinant Human MNK2 (D228G) His-tagged

NU03050-2 10 µg \$ 139

Recombinant Human PKM2

NU03006-2 10 µg \$ 203

Recombinant Human RBD-Raf-1, His-Tag

NU03056-1 100 µg \$ 533

Recombinant Human SCF, Animal-free

21065-04 10 µg \$ 220

Recombinant Human Sonic Hedgehog (SHH)

NU03018-1 25 µg \$ 229

Recombinant Human SOS1

NU03057-1 100 µg \$ 597

Recombinant Human SOS1, His-Avi-tagged

NU03048-1 100 µg \$ 597

Recombinant Human Serum Albumin, Animal-free

NU12880-10G 10 g \$ 730

Recombinant Human Transferrin, Animal-free

NU03060-1 1 g \$ 475

Recombinant Human VEGF-165

NU03013-1 10 µg \$ 229

Recombinant Human Vitronectin- 398™, Xeno-free

NU0006 500 µg \$ 99





Cytokines, Growth Factors and other Recombinant Proteins

Next-generation Growth Factors produced in the plant seeds of *Camelina Sativa*
Animal component-free, Endotoxin-free, Biorisk-free

Thermostable Recombinant FGF-2 (FGF-2 STAB®)

PL9-50 50 µg \$ 366

Recombinant Human FGF-2

PL1-50 50 µg \$ 313

Recombinant Bovine FGF-2

PL2-50 50 µg \$ 313

Recombinant Human EGF

OL3-50 50 µg \$ 188

Recombinant Human IGF-1 LR-3

OL11-50 50 µg \$ 188

StemBeads® : Controlled-release Reagents

StemBeads® FGF2

SB501 1 mL \$ 184

SB502 3 mL \$ 345

StemBeads® EGF

SBEGF 3 mL \$ 165

StemBeads® Activin-A

SBAC1 1 mL \$ 155

SBAC5 5 mL \$ 245

StemBeads® Blank15

SB001 3 mL \$ 166

StemBeads® BDNF

SBBD1 1 mL \$ 445

StemBeads® GDNF

SBGD1 1 mL \$ 445

EFG2 Discs; 10 ng/mL in 2mL

DSC500S 12 Discs \$ 134

DSC500-48 48 Discs \$ 344

EFG2 Discs; 10 ng/mL in 1mL

DSC505-48 48 Discs \$ 272

BDNF Discs; 5 ng/mL in 2mL

DSCBD1-12 12 Discs \$ 146

GDNF Discs; 5 ng/mL in 2mL

DSCGD1-12 12 Discs \$ 146

