FUJIFILM
Value from Innovation

CultureSure Small Molecules

Quality-Assured solution* for stem cell research: Free from Endotoxins and Mycoplasma Contamination

CultureSure CHIR99021

GSK-3β inhibitor

For Efficient Reprogramming
Used to generate iPS cells from mouse somatic cells.

For Undifferentiated State Maintenance
Inhibits differentiation and facilitates self-renewal of ES cells with high efficiency when cultured in medium containing this product and PD0325901.

For Organoid Cultures
It is used when establishment organoids of various organs.

CultureSure SB431542

ALK4, ALK5, ALK7 Inhibitor

For Efficient Reprogramming
When used together with this compound, PD0325901, and thiazovivin, reprogramming efficiency improves more than 200 times and reprogramming speeds up.

For Undifferentiated State Maintenance
Promotes proliferation, differentiation, and cell sheet formation of ES cell-derived endothelial cells.

For Organoid Cultures
It is used when establishment organoids of various organs.

CultureSure FORSKOLIN

Adenylate cyclase activator

For Differentiation Induction
Induces differentiation of mesenchymal stem cells into neurons when used in conjunction with bFGF.

For Organoid Cultures
Used in culture liver organoids.

CultureSure DAPT

Gamma-secretase inhibitor

For Differentiation Induction
Inhibits Notch signaling and induces neural differentiation from ES cell embryoid bodies. Preferentially induces cone photoreceptor subtypes in retinal cell differentiation.

For Organoid Cultures
Used as a component of medium when differentiation of brain organoid.

CultureSure A-83-01

ALK4, ALK5, ALK7 Inhibitor

For Efficient Reprogramming
It has been reported that when used together with Y-27632 and CHIR99021, it reprograms rat and mouse mature hepatocytes into hepatic progenitor cells that can be stably cultured in vitro.

For Undifferentiated State Maintenance
Facilitates the uniform growth of rat and canine iPS cells without differentiation for long periods of time.

For Differentiation Induction
Promotes differentiation of human iPS cells into neural cells.

For Organoid Cultures
Commonly used as an additive for long-term organoid growth.

CultureSure IWP-2

Wnt Inhibitor

For Undifferentiated State Maintenance
Inhibits self-renewal of mouse ES cells (R1 cells).

For Differentiation Induction
Promotes differentiation of human iPS cells into cardiomyocytes.

For Organoid Cultures
Used as one of the components of medium for cardiomyocyte differentiation from iPSCs.

CultureSure IWR-1-ENDO

Wnt Inhibitor

For Organoid Cultures
Used for self-organization in neocortical organoid culture from human ES cells.

CultureSure PURMORPHAMINE

Hedgehog signaling Agonist

For Differentiation Induction
Induces differentiation of mesenchymal progenitor cells and preosteoblast cells into osteoblasts.

CultureSure PD0325901

MAPK Inhibitor

For Efficient Reprogramming
Improve reprogramming efficiency more than 200-fold and speed up reprogramming when used with SB431542 and thiazovivin.

For Undifferentiated State Maintenance
Efficiently maintains ES cell self-renewal potential when used in conjunction with CHIR99021.

For Organoid Cultures
Used as one of the components of medium for inner ear organoid culture.

CultureSure DOSOMORPHIN

AMPK Inhibitor

For Differentiation Induction
Induces neurqal differentiation from human iPS cells, and cardiomyocytes from mouse ES cells.

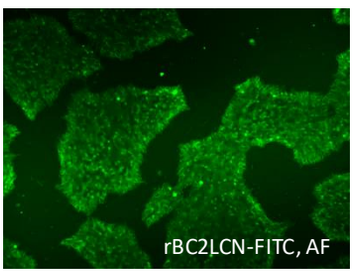
For Organoid Cultures
Human brainstem organoids can be derived from human iPS/ES cells when used in combination this with several other small molecule compounds.

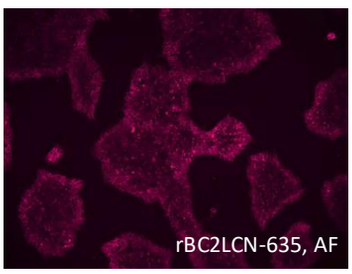
*Quality assurance tests vary depending on the product.

rBC2LCN series

Human ES/iPS Cell Undifferentiation Markers

Undifferentiated human ES/iPS cells can be observed in 30 to 40 minutes by simply adding this time-saving undifferentiation marker to the culture medium.
This is an animal-free product; no animal-derived components are used as raw materials.





EXCITATION AND FLUORESCENCE WAVELENGTHS

	Excitation	Emission
rBC2LCN-FITC	495 nm	520 nm
rBC2LCN-635	634 nm	654 nm

StemSure hPSC Remover (rBC2LCN-PE38, AF)

Reagent for Removal of Undifferentiated Human ES/iPS Cells

BC2LCN has a very high affinity for H type 3 (Fucα1-2Galβ1-3GalNAc), a mucin-like O-type glycans on the cell surface of undifferentiated human ES/iPS cells. After being taken up into the cell, this product inhibits protein synthesis and causes cell death. Therefore, it can be used as a marker for undifferentiated human ES/iPS cells.

FEATURES

- Selectively removes undifferentiated human ES/iPS cells
- Can be directly added to the culture medium without cell dispersion
- No animal-derived components used as raw materials or in manufacturing processes

PRODUCT PROPERTIES

- Tested for sterility
- Dissolved in PBS(-)
- Concentration: 0.09 - 0.11 mg/mL (indicated on product label)
- Tested for effectiveness: Confirmed for human iPS cell killing performance
- Tested for endotoxin

ORDERING INFORMATION

Product Cat. No	Product Name	Storage Condition	Grade	Pkg. Size
029-18061	BC2LCN【AiLecS1】Lectin, recombinant, Solution Unlabeled	Keep at -20°C	for Glycobiology	1 mg
025-18063				1 mg×5
184-03511	rBC2LCN-FITC, AF【AiLecS1-FITC】 [Ex. 495nm, Em 520nm]	Keep at -20°C	for Cell Staining	100 µL
180-03513				100 µL×5
187-03501	rBC2LCN-635, AF【AiLecS1-635】 [Ex. 634nm, Em. 654nm]	Keep at -20°C	for Cell Staining	100 µL
192-19081	StemSure® hPSC Remover (rBC2LCN-PE38, AF)	Keep at -20°C	for Cell Culture	100 µL

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