# iMatrix-411

Product No. 892 041350 μgProduct No. 892 0421,050 μg





Version 001 Store at 2-15 °C Protect from light

# **Background Information**

Laminin-411 is well known to bind to the integrin  $\alpha$ 681 which is located on the cell surface. iMatrix-411 is recombinant Laminin411-E8 fragments which domain is known the binding region to integrin  $\alpha$ 681. iMatrix-411 increases the induction frequency to the blood vessel endothelial cells from pluripotent stem cells.

#### Content

Recombinant Human Laminin411-E8 Fragments

#### Amount

175 µg / tube (892 041: 2 tubes, 892 042: 6 tubes)

## Form

Liquid solution

## **Product Information**

iMatrix-411 is recombinant human Laminin411-E8 fragments expressed by CHO-S cell (Life Technologies).

## Storage and Stability

The liquid solution is stable at +2 to +15  $^{\circ}$ C until the expiration date printed on the label. Protect from light. iMatrix-411 is stable at 4  $^{\circ}$ C for 2 years from the manufacturing date.

## Activity

The dissociation constant of the binding activity with integrin  $\alpha 6\beta 1$  is less than 10 nM.

## Application

iMatrix-411 is able to be used as cell culture substrate for various cell types including ES/iPS cells.

## Procedure

1) Dilute the solution with sterile  $\mbox{PBS}(\mbox{-}).$  Coat dishes with

 $0.5 \ \mu\text{g/cm}^2$ .

\* For example, for one well of a 6-well plate (9.6 cm2/well),

add 9.6  $\mu L$  of iMatrix-411 (4.8  $\mu g)$  in 2 mL of PBS(-). Add 2 mL of diluted iMatrix-411 solution to the well.

2) Incubate for 1 h at 37 °C, 3 h at room temperature, or over night at 4 °C.

3) Remove remaining fluid from the coated surface. No rinse is needed.

4) Immediately plate the cells at desired density.

\* Don't allow the plate to dry.

\* The optimum coating concentration depends on cell lines, from 0.1 to 1.5  $\mu g/cm2.$ 

#### References

Laminin 411 and 511 promote the cholangiocyte differentiation of human induced pluripotent stem cells Kazuo Takayama, et al.

Laminin-guided highly efficient endothelial commitment from human pluripotent stem cells Ryo Ohta, et al.

## **Regulatory** Disclaimer

For life science research only. Not for use in diagnostic procedures.

# Contact and Support

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