

# iMatrix-411

Product No. AMS.892 041      350 µg  
 Product No. AMS.892 042      1,050 µg

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

## Background Information

Laminin-411 is well known to bind to the integrin  $\alpha 6 \beta 1$  which is located on the cell surface. iMatrix-411 is recombinant Laminin411-E8 fragments which domain is known the binding region to integrin  $\alpha 6 \beta 1$ . 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 °C until the expiration date printed on the label.  
 Protect from light.

iMatrix-411 is stable at 4 °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 PBS(-). Coat dishes with 0.5 µg/cm<sup>2</sup>.  
 \* For example, for one well of a 6-well plate (9.6 cm<sup>2</sup>/well), add 9.6 µL of iMatrix-411 (4.8 µg) 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 µg/cm<sup>2</sup>.

## 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.

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