iMatrix-511

Product No. AMS.892 011 350 µg
Product No. AMS.892 012 1,050 µg

Background Information
Laminin-511 is well known to bind to the integrin α6β1 which is located on the cell surface. iMatrix-511 is recombinant Laminin511-E8 fragments.

Content
Recombinant Human Laminin511-E8 Fragments

Amount
175 µg / tube (892 011: 2 tubes, 892 012: 6 tubes)

Concentration
0.5 mg / mL

Form
Liquid solution (solvent: PBS(-))

Product Information
iMatrix-511 is recombinant human Laminin511-E8 fragments expressed by CHO-S cells (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-511 is stable at 4 °C for 2 years from the manufacturing date.

Activity
The dissociation constant of the binding activity with integrin α6β1 is under 10 nM.

Application
iMatrix-511 is able to use 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/cm².
   * For example, for one well of a 6-well plate (9.6 cm² /well), add 9.6 µL of iMatrix-511 (4.8 µg) in 1.99 mL of PBS(-)
   Add 2 mL of diluted iMatrix-511 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.
   * Briefly spin down all liquid in the tube before use.
   * Avoid repeated freeze-thaw cycles.

References
Dui D et al. Stem Cell Reports. 2(3): 337-50, 2014
Matsuno K et al. Differentiation. 92 (5): 281-90, 2016
Nishimura K et al. Stem Cell Reports. 6 (4): 511-24, 2016
Kikuchi T et al. J Neurosci Res. 95 (9):1829-37, 2017

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