iMatrix-511

Product No. 892 011 350 μg
Product No. 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 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-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 E8/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(-).
2) Add 2 mL of diluted iMatrix-511 solution to the well.
3) Incubate for 1 h at 37 °C, 3 h at room temperature, or over night at 4 °C.
4) Remove remaining fluid from the coated surface. No rinse is needed.
   * Don’t allow the plate to dry.
   * Briefly spin down all liquid in the tube before use.
   * Avoid repeated freeze-thaw cycles.

References
Ido H et al. The requirement of the glutamic acid residue at the third position from the carboxyl termini of the laminin gamma chains in integrin binding by laminins. J. Biol. Chem. 282 (15): 11144-54, 2007


Nakagawa M et al. A novel efficient feeder-free culture system for the derivation of human induced pluripotent stem cells. Sci Rep. 4: 3594, 2014


Fukuta M et al. Derivation of mesenchymal stromal cells from pluripotent stem cells through a neural crest lineage using small molecule compounds with defined media. PLoS One. 9 (12): e112291, 2014

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

Contact and Support
E-mail: protein-info@nippi-inc.co.jp

Research & Development Project Manager, NippiResearch Institute of Biomatrix, Protein Engineering Office, Nippi, incorporated
1-1-1 Senjumidori-cho, Adachi-ku, Tokyo 120-8601,JAPAN