

Easy iMatrix-511/Easy iMatrix-511 silk

Product No. 892 018 100 mL (Easy iMatrix-511)
Product No. 892 024 100 mL (Easy iMatrix-511 silk)

Version 004
Store at 2-15°C

Product description: iMatrix-511/iMatrix-511 silk are recombinant human laminin-511 E8 fragment proteins expressed in Chinese Hamster Ovary (CHO)-S cells (iMatrix-511) or by a silkworm expression system (iMatrix-511 silk). iMatrix-511/iMatrix-511 silk contain integrin-binding site of the laminin-511 molecule. iMatrix-511/iMatrix-511 silk are cell culture substrates useful for feeder-free culture and single-cell passage of ES cells and iPS cells, facilitating stable culture expansion. Easy iMatrix-511/Easy iMatrix-511 silk are products that have been prepared at a ready-to-use concentration of iMatrix-511/iMatrix-511 silk, respectively. Easy iMatrix-511/Easy iMatrix-511 silk are also useful for the culture of other cells adhering to laminin-511.

Content: 1.6 µg/mL recombinant human laminin-511 E8 fragment protein dissolved in PBS(-) which contains 0.05% recombinant human albumin

Amount: 160 µg / 100 mL

Storage: Store at 2°C to 15°C, protect from light.

Expiration date: The shelf life is 24 months from the date of manufacture. The expiration date is printed on the outer carton.

Activity: The dissociation constant (Kd) for the binding with integrin $\alpha 6\beta 1$ is 10 nM or less.

Methods of use: By the following procedure, iMatrix-511/iMatrix-511 silk can be coated onto a 6-well plate (9.6 cm²/well) with 0.25 µg/cm². Adjust the used solution volume due to the surface area to coat with 0.25 µg/cm² when other culture vessels are used. The standard volume is 156 µL/cm². Insufficient coating density may result in the detachment of cells and varied cell conditions while the excessive coating density may lead to difficulty in detaching cells for passage.

The optimum coating density may differ by cell-type, cell-line, medium selected, or purpose. Optimize the coating volume in culture of cell types other than ES/iPS cells, starting with the standard condition described above.

Procedure: **The case of using a 6-well plate (9.6 cm²/well)**

1) Place 1.5 mL of Easy iMatrix-511/Easy iMatrix-511 silk/well.

2) Incubate either at 37°C for 1 h, room temperature for 3 h, or 4°C overnight.
3) Aspirate the coating solution and seed your cells immediately. **Do not allow the coated surface to dry.**

*Drying the coated surface may lead inactivation of the laminin-511 E8 fragment, affecting the cell attachment/detachment efficiency and the cellular condition.

Caution: For research use only. Not intended for human use. In the event of accidental ingestion or contact with the eyes, immediately wash the affected area and seek medical attention.

Product information: Current information including references and Q&A are available on the website of MATRIXOME, Inc. Please use the URL or QR code below.

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