

For research use only
Not for use in diagnostic procedures

iMatrix-111

Product No. AMS.892 071 350 µg
Product No. AMS.892 072 1,050 µg

Version 001
Store at 2-15°C

Product description: iMatrix-111 is a recombinant human laminin-111 E8 fragment protein expressed in Chinese Hamster Ovary (CHO)-S cells. iMatrix-111 contains the integrin-binding site of the laminin-111 molecule. iMatrix-111 is useful for differentiation of pluripotent stem cells into hepatic progenitor cells, hepatocytes, and neural cells. iMatrix-111 also supports the culture of other cells adhering to laminin-111 such as neural cells.

Content: Recombinant human laminin-111 E8 fragment protein in 20 mM phosphate buffer, 250 mM NaCl

Protein concentration: 0.5 mg/mL

Amount: 175 µg / 0.35 mL / tube
Product No. 892 071 350 µg / 2 tubes
Product No. 892 072 1,050 µg / 6 tubes

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

Expiration date: The shelf life is 2 years from the date of manufacture. The expiration date is printed on the carton.

Methods of use: By the following method iMatrix-111 can be coated onto a culture vessel. The optimum coating density may differ by cell-type, cell-line, medium selected, or purpose. 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.

Coating protocol

Determine the optimal coating density. 0.5 µg/cm² is a standard but test between 0.1 and 2.0 µg/cm².

- 1) Dilute iMatrix-111 with PBS(-). Use the diluted iMatrix-111 immediately. To coat with 0.5 µg/cm² onto a 6-well plate with 9.6 cm²/well, dilute 9.6 µL of iMatrix-111 with 2 mL of PBS(-) per well.
- 2) Place the diluted iMatrix-111 into a culture vessel and incubate either at 37°C for 1 h, or at room temperature for 3 h, or at 4°C overnight.
- 3) Aspirate the coating solution. Then, immediately seed your cells. Do not allow the coated surface to dry.

*If you face difficulties in detaching cells for passage, re-adjust the conditions (e.g., reduce the coating density).

*Coating protocol is illustrative only.

References:

- Taniguchi Y. *et al.* (2009) *J. Biol. Chem.* **284** (12), 7820-31
Doi D. *et al.* (2014) *Stem Cell Reports* **2** (3), 337-50
Takayama K. *et al.* (2017) *Hepatol. Commun.* **1** (10), 1058-69
Kiyozumi D. *et al.* (2020) *Life Sci. Alliance* **3** (2), e201900515
Guo G. *et al.* (2021) *Cell Stem Cell* **28** (6), 1040-56

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 our website at www.amsbio.com

Designed by: Matrixome Inc.

Manufactured by: Nippi, Inc.

Available Globally from: AMSBIO / AMS Biotechnology (Europe) Ltd - see details below to find your local office

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