

Pluronic® F-127

<http://www.lumiprobe.com/p/pluronic-f-127>

Pluronic® F-127 is a nonionic detergent widely used to solubilize hydrophobic molecules such as cell-permeable AM esters of Fluo-4, Fluorica-8 calcium indicators, and Di-4-ANEPS, Di-8-ANEPS potentiometric probes and facilitate their loading into cells. We offer Pluronic® F-127 as a ready-to-use 10% solution in H₂O.

Protocol

Below is a typical procedure for loading AM esters of ion indicators and other dyes into cells using a 10% solution of Pluronic® F-127 in water. Cell loading conditions may vary depending on the cell types or compounds loaded.

1. Dissolve the dye or AM ester in [anhydrous DMSO](#) at a concentration of 1–5 mM (or 1000–500× the desired final dye concentration).
2. Immediately before use, mix equal volumes of AM ester or dye stock solution and 10% Pluronic® F-127 solution in a microcentrifuge tube.
3. Add the resulting solution to a staining buffer or cell culture medium to obtain a final dye or AM ester concentration of 1 to 10 µM.
4. Remove culture medium from cells and add medium or buffer containing a diluted dye or AM ester with Pluronic® F-127.
5. Incubate cells at room temperature or 37 °C for 10 minutes to 1 hour or longer.

Product storage and handling

- Store the solution at room temperature. DO NOT refrigerate or freeze the solution. The product is stable for at least 12 months from the date of receipt when stored as recommended.
- Pluronic® F-127 solutions may harden into a gel during storage, especially at low temperatures. This is normal and does not affect the quality of the product. Before use, warm the vial of Pluronic® F-127 solution to 50–65 °C for 5–10 minutes, vortexing occasionally, until a clear liquid forms.

General properties

Molecular weight: ~12,500

CAS number: 9003-11-6

Solubility: soluble in water and DMSO

Storage conditions: Store at room temperature

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