

Cell Stimulation Cocktail (Protein Transport Inhibitors Plus, 500X)

Introduction

Cell Stimulation Cocktail (Protein Transport Inhibitors Plus, 500X) is a pre-mixture cocktail of 12-myristate 13-acetate (PMA), ionomycin, brefeldin A, and monensin. Stimulation of cells with PMA and ionomycin can induce many cell activations, which in turn induce the production of cytokines. Brefeldin A and monensin are protein transport inhibitors that allow secreted proteins to accumulate in the endoplasmic reticulum and Golgi, allowing the resulting cytokines to remain in the cell. It can then be detected by immunoassays.

This reagent is supplied as a stock solution dissolved in ethanol and can be used directly. The concentration of PMA is 40.5 μM (25 $\mu\text{g/mL}$), ionomycin is 670 μM (0.5 mg/mL), brefeldin A is 5.3 mM (1.5 mg/mL), and monensin is 1 mM (0.7 mg/mL).

Components and Storage

Components	K2715-100 μL
Cell Stimulation Cocktail (Protein Transport Inhibitors Plus, 500X)	100 μL
Store the reagent at -20°C away from light, stable for 1 year.	

Protocol

- When using, dilute this reagent in the cell culture medium at a ratio of 1:500 so that the final concentration of this reagent is 1X. The cell stimulation time varies depending on the desired results.

Note

- This product is an ethanol solution, which will not be frozen in storage temperatures. However, ethanol is volatile, so it must be sealed tightly and stored at low temperatures after use to avoid excess evaporation.
- For your safety and health, please wear lab coats and gloves during the experiment.
- For research use only. Not to be used in clinical diagnostic or clinical trials.



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