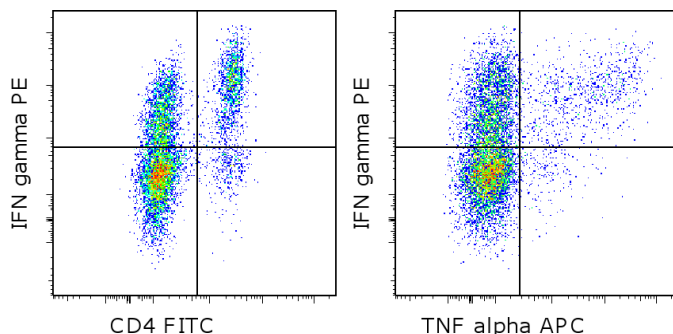


## Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

Catalog Number: 00-4975

GPR: General Purpose Reagents. For Laboratory Use.



Mouse splenocytes were cultured with 1X Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) for 16 hours. Cultures were harvested, fixed and permeabilized with IC Fixation Buffer (cat. 00-8222) and Permeabilization Buffer (cat. 00-8333). The cells were then stained with Anti-Mouse CD4 FITC (cat. 11-0042), Anti-Mouse IFN gamma PE (12-7311) and Anti-Mouse TNF alpha APC (cat. 17-7321). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

**Catalog Number:** 00-4975

**Concentration:** 500X (Use at 1X: dilute 1/500 or to 2 uL/mL final concentration)

**Handling Conditions:** Wear suitable personal protective equipment and gloves.

**Formulation:** Phorbol 12-Myristate 13-Acetate (40.5 uM), Ionomycin (670 uM), Brefeldin A (5.3 mM), Monensin (1 mM) in Ethanol

**Temperature Limitation:** Store at -20°C. For long term-storage, product can also be stored at less than or equal to -70°C. Protect from light.

**Batch Code:** Refer to vial

**Use By:** Refer to vial









### Description

The Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) is a cocktail of phorbol 12-myristate 13-acetate (PMA), ionomycin, brefeldin A and monensin. Treatment with PMA and ionomycin is sufficient to induce activation of many cell types to produce cytokines. Brefeldin A and Monensin result in the accumulation of secreted proteins in the endoplasmic reticulum and Golgi apparatus. Thus, the Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) can be used for induction and subsequent intracellular detection of cytokines and other secreted proteins in both *in vitro*-cultured and *ex vivo* cells.

For an unstimulated and vehicle control, see the Protein Transport Inhibitor Cocktail (500X) (cat. 00-4980).

### Applications Reported

The Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) has been reported for use in flow cytometric analysis.

### Applications Tested

The Cell Stimulation Cocktail (plus protein transport inhibitors) (500X) has been tested by treatment of mouse splenocytes for 5 to 18 hours followed by intracellular staining and flow cytometric analysis of IFN $\gamma$ . This cocktail is supplied as a 500X concentrate and can be directly added to culture medium at 1X (2  $\mu$ L/mL).

This product is formulated such that it will not freeze at the recommended storage temperatures. It is recommended that this product be kept tightly sealed and cold at all times to avoid excess evaporation.

### Related Products

00-4970 Cell Stimulation Cocktail (500X)

00-4980 Protein Transport Inhibitor Cocktail (500X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

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## **Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)**

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