

Datasheet: BUF077A

Description:	CELL STIMULATION REAGENT (WITH BREFELDIN A) (500X)
Name:	CELL STIMULATION REAGENT (WITH BREFELDIN A)
Format:	Reagent
Product Type:	Accessory Reagent
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Product Form

500x concentrate - liquid

Preparation

500x solution contains: PMA (phorbol-12-myristate 13-acetate) 40.5 µM, Ionomycin 669.3 µM and Brefeldin A 2.5 mg/ml in DMSO

Product Information

Cell Stimulation Reagent (with Brefeldin A) 500x is a mixture of PMA (phorbol-12-myristate-13-acetate), ionomycin and the protein transport inhibitor Brefeldin A. PMA and ionomycin activate cells and increase cytokine production. Brefeldin A allows for these cytokines to accumulate in the rough endoplasmic reticulum and golgi apparatus allowing for their detection by intracellular fluorescent staining.

Instructions For Use

1. Resuspend 1×10^6 - 2×10^6 cells per ml in cell culture media
2. Thaw the Cell Stimulation Reagent (with Brefeldin A) 500x (BUF077A) in a 37°C water bath
3. To each ml of cell suspension add 2 µl of BUF077A and incubate cells in a CO₂, 37°C incubator for 6 hours
4. Harvest cells and centrifuge at 300-400 g for 5 minutes. Discard supernatant
5. To wash the pellet, add 10-20 ml of Cell Staining Buffer ([BUF073](#)), vortex to resuspend the pellet then centrifuge at 300-400 g for 5 minutes. Discard supernatant and repeat step 5 for a second time
6. Stain for surface markers or proteins of interest and analyze cells by flow cytometry

Note: Aliquot product to avoid repeat freeze-thawing. Time and culture conditions may need to be optimized.

Activation of cells for >12 hours with Brefeldin A may affect cell viability. In these circumstances it is recommended to use Cell Stimulation Reagent (without Brefeldin A) 500x ([BUF076A](#)) and then add Brefeldin A Solution 1000x ([BUF075](#)) or Monensin Solution ([BUF074](#)).

Storage	Store at -70°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light.
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Guarantee	Guaranteed until date of expiry. Please see product label.
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Health And Safety Information	Material Safety Datasheet documentation #20388 available at: 20388: https://www.bio-rad-antibodies.com/uploads/MSDS/20388.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

[CELL STIMULATION REAGENT \(WITHOUT BREFELDIN A\) \(500X\) \(BUF076A\)](#)

[BREFELDIN A SOLUTION \(1000X\) \(BUF075\)](#)

[MONENSIN SOLUTION \(1000X\) \(BUF074\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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