

TECHNICAL DATA SHEET

Monensin Solution (1000X)

Catalog Number: TNB-4505

PRODUCT INFORMATION

Contents: Monensin Solution (1000X)

Use By: 6 months from date of receipt

Storage Conditions: -20°C, protected from light and tightly sealed to prevent evaporation

Formulation: 2mM Monensin in methanol

DESCRIPTION

Monensin is a protein transport inhibitor that can be added to cell culture medium during in vitro activation of cells to inhibit the secretion of cytokines elicited by stimulation. Addition of Monensin leads to an accumulation of newly synthesized protein in the endoplasmic reticulum. The use of Monensin effectively enhances the detection of most mouse and human intracellular cytokines however, other protein transport inhibitors such as Brefeldin A can also be used. It is recommended that investigators evaluate the optimal reagent to use for their specific assay system.

PREPARATION & STORAGE

Monensin solution is supplied as a 1000X solution in Methanol. Product should be stored at -20°C, protected from light and tightly sealed to prevent evaporation.

APPLICATION NOTES

Monensin Solution (1000X) has been quality-tested by treatment of mouse splenocytes for 6 to 18 hours with Monensin Solution (1000X) in combination with Cell Stimulation Cocktail (w/o protein transport inhibitors) (500X) followed by intracellular staining and flow cytometric analysis of IL-2 or IFN-gamma. Monensin solution is supplied as a 1000X solution and should be used at 1X final concentration for cell stimulation. It is recommended to add the inhibitor directly to the cell suspension at 1 μ L/mL to obtain a 1X final concentration.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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