

Monensin Solution (1000×)

M1373922

Store at -20°C long term (12 months).

Concentration

2.0 mM.

Composition

Monensin Solution is supplied as a 1000× working solution in 70% Ethanol. Dilute to 1× in cell culture medium.

Handling Conditions

Monensin is known to be toxic; avoid direct body contact. Ethanol is flammable; keep away from sources of fire.

Description

Monensin is a protein transport inhibitor commonly used to enhance intracellular cytokine staining signals by blocking transport processes during cell activation. Especially useful for the intracellular staining of cytokines, monensin leads to the accumulation of most cytokines at the Golgi Complex/Endoplasmic Reticulum (see Jung, et al., 1993). Optimal conditions for use are cell type and time-dependent. Typically, protein transport inhibitors are included during in vitro cell activation cultures for 4-24 hours prior to harvest (see references below for additional information). Monensin Solution is supplied as a 1,000× solution, which should be diluted to 1× in cell culture medium.

Applications Reported:

Dilute the 1000× solution to 1× in the tissue culture medium. It is recommended that cells are cultured with monensin for ≤ 24 hours, as this can become toxic for cell viability.

References

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