

TECHNICAL DATA SHEET

# Ghost Dye™ Red 780

Catalog Number: 13-0865

## PRODUCT INFORMATION

**Contents:** Ghost Dye Red 780

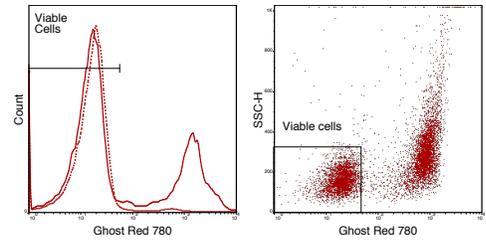
**Excitation Laser Red** (633 nm)

**Emission (nm):** 780

**Formulation:** 1 uL/test in DMSO

**Storage Conditions:** -20°C protected from light and moisture

**Use by:** 6 months from date of receipt



LEFT: Mouse thymocytes were incubated overnight at 4°C (dashed) or 37°C (solid) and stained with Ghost Dye Red 780. RIGHT: Mouse splenocytes were stimulated overnight with PMA and stained with Ghost Dye Red 780. Viable gate is indicated.

## DESCRIPTION

Ghost Dye Red 780 is an amine reactive viability dye that can be used to discriminate viable from non-viable mammalian cells in flow cytometry applications. This dye irreversibly binds free amines available on the cell surface as well as intracellular free amines exposed in cells with compromised cell membranes. Necrotic cells with compromised membranes will react with significantly more Ghost Dye Red 780 dye than viable cells in the same sample and therefore will exhibit much greater fluorescence intensity allowing exclusion of these cells from analysis.

## PREPARATION & STORAGE

Ghost Dye Red 780 is provided in solution prepared in anhydrous DMSO and should be protected from light and moisture. Store vial at -20°C. Prior to use, allow vial to equilibrate to room temperature before opening. Ghost Dye Red 780 dye is stable through 20 freeze/thaw cycles, if needed, aliquot smaller volumes and store at -20°C. Cells labeled with Ghost Dyes can be cryopreserved for later use or used in intracellular staining protocols without any loss of fluorescence intensity.

## APPLICATION NOTES

Ghost Dye Red 780 has been quality-tested for flow cytometry using mouse thymocytes and can be used at 1 uL/mL of cell suspension. The concentration required for optimal performance should be determined empirically by investigator. Ghost Dye Red 780 is excited by the red (633 nm) laser line and has a peak emission of 780 nm that can be detected using a 780/60 band pass filter commonly used for detection of APC-Cy7.

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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