

Pyronin Y

Cat. No. DYE-181 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description

Pyronin Y is a dye that intercalates and stains RNA red, and has been shown to accumulate in the mitochondria of viable cells. Multidrug-resistant (MDR) *Acinetobacter baumannii* studies tested inhibition of the efflux pump by measuring the intracellular accumulation of Pyronin Y and Ethidium bromide (sc-203947). Research shows that at low Pyronin Y concentrations the cytostatic effect is cell arrest in the G1 phase, whereas at high concentrations the cells arrest is in the G2 and S phase. Pyronin Y has been used in combination with Alcian Blue (sc-214517) to assess and study pulmonary diseases, and in combination with Methyl Green (sc-215348) to stain nucleic acids in paraffin sections. Additionally Pyronin Y has been used to measure RNA in flow cytometry.

CAS number 92-32-0

Molecular Mass 302.8

Formula C₁₇H₁₉ClN₂O

Ex(nm) 546

Em(nm) 549

Solvent DMSO

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Storage

Store at -20°C in the dark. Dessicated.

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