PRODUCT DATA SHEET

ENZ-52307  Rhodamine 123 (ultra pure)
Mitochondria dye

Rhodamine 123 is a cell-permeant, cationic, green-fluorescent dye that is readily sequestered by active mitochondria without cytotoxic effects. Rhodamine 123 can be used in multi-parametric analysis, without fluorescence interference, in combination with common protein labeling dyes such as cyanine-5 and AMCA. With respect to apoptosis, the presence of mitochondrial membrane potential can be probed with rhodamine 123 while the structure and integrity of mitochondria can be assessed using 10-N-nonyl-acridine orange. Wavelength Maxima: Excitation 507nm, Emission 529nm

Product Specifications

MW: 380.8
PURITY: ≥95% (HPLC)
CAS: 62669-70-9
SOLUBILITY: Soluble in DMSO.
SHIPPING: AMBIENT
LONG TERM STORAGE: -20°C
USE/STABILITY: Stable for at least one year after receipt when stored as recommended.
HANDLING: Keep cool and dry. Protect from light.

Product Literature References

Assay for apoptosis using the mitochondrial probes, Rhodamine123 and 10-N-nonyl acridine orange C. Ferlini & G. Scambia Nat. Protoc. 2 3111 (2007)

Background/Technical Information

This product is a member of the CELlestial® product line, reagents and assay kits comprising fluorescent molecular probes that have been extensively benchmarked for live cell analysis applications. CELlestial® reagents and kits are optimal for use in demanding imaging applications, such as confocal microscopy, flow cytometry and HCS, where consistency and reproducibility are required.

Revised 10-Aug-11

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

MATERIAL SAFETY DATA: This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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