

Rhodamine B

Cat. No. DYE-185 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Description

Rhodamine B is a useful fluorochrome for histology due to its fluorescent properties in ultraviolet light. It ejects an electron onto TiO₂, which is then scavenged by O₂ forming the O₂⁻ radical anion. This anion ultimately becomes the OH radical. A pH-independent process degrades Rhodamine B in TiO₂ dispersions containing no dodecylbenzenesulfonate. The compound has been incorporated in a FRET system based on lanthanide-doped nanoparticles for monitoring biological effects.

Rhodamine B has also been used as a mitochondrial probe to study the energetic state of multi-drug resistant and sensitive cells where the mitochondrial Rhodamine B concentration was precisely determined with the loss of fluorescence in the presence of MTT Formazan (sc-215399), a fluorescence quencher. In addition, Rhodamine B has been observed to significantly reduce the number of human lip fibroblast cells in culture. Used for staining Negri bodies in tissue.

CAS number 81-88-9

Molecular Mass 479.01

Formula C₂₈H₃₁ClN₂O₃

Ex(nm) 552

Em(nm) 588

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Solvent	DMSO
Storage	Store at -20°C in the dark. Dessicated.