Glowing products for science

Call us : 800-304-5357

Tetrabromorhodamine 123, bromide

Tetrabromorhodamine 123 can be used to generate singlet oxygen ($^1O_2$) in mitochondrial membranes (1,2). The dye has a quantum yield for singlet oxygen generation of 0.65-0.7 and is particularly toxic to carcinoma cells.

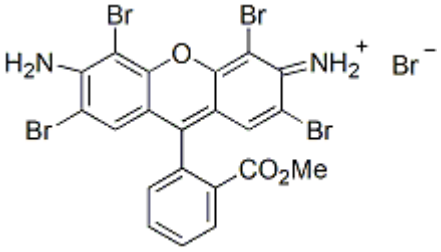
Product attributes

Probe cellular localization	Mitochondria
For live or fixed cells	For live/intact cells
Assay type/options	No-wash staining, Real-time imaging
Colors	Red
Excitation/Emission	524/550 nm

Product Description

Tetrabromorhodamine 123 can be used to generate singlet oxygen ($^1O_2$) in mitochondrial membranes (1,2). The dye has a quantum yield for singlet oxygen generation of 0.65-0.7 and is particularly toxic to carcinoma cells.[3]

- $\lambda_{Ex}/\lambda_{Em}$(MeOH) = 524/550 nm
- ε (MeOH) = 91,000
- Orange red solid soluble in DMSO or DMF
- Store at 4 °C and protect from light, especially in solution
- $C_{21}H_{13}Br_5N_2O_3$
- MW: 740.86



References

1. Photochem Photobiol 55, 81 (1992).

2. Proc SPIE 997, 48 (1988).

3. Cancer Res 49, 3961 (1989).