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Rhodamine 123

Rhodamine 123 is a popular green fluorescent mitochondrial dye that stains mitochondria in living cells in a membrane potential-dependent fashion. It is widely used in flow cytometry studies involving mitochondrial membrane potential.

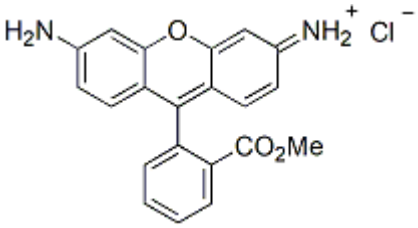
Product attributes

CAS number	62669-70-9
Probe cellular localization	Mitochondria
For live or fixed cells	For live/intact cells
Assay type/options	Real-time imaging
Cell permeability	Membrane permeant
Apoptosis/viability marker	Mitochondrial potential
Potential dependence	Mitochondrial potential-dependent
Colors	Red
Excitation/Emission	505/534 nm

Product Description

Rhodamine 123 is a popular green fluorescent mitochondrial dye that stains mitochondria in living cells in a membrane potential-dependent fashion. It is widely used in flow cytometry studies involving mitochondrial membrane potential. Please also see Dihydrorhodamine 123 and its HCl salt (10055 and 10056).

- $\lambda_{Ex}/\lambda_{Em}$ (MeOH) = 505/534 nm
- ε (505 nm, MeOH) = 97,000
- Orange red solid soluble in DMSO or DMF
- Store at 4°C and protect from light, especially in solution
- $C_{21}H_{17}ClN_2O_3$
- MW: 381
- [62669-70-9]



References

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2. Science 218, 1117 (1982).

3. J Cell Biol 88, 526 (1981).