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DiOC2(3)

$DiOC_2(3)$ (3,3′-Diethyloxacarbocyanine, iodide) has been used for measuring membrane potentials in bacteria. The green fluorescent dye forms red fluorescent aggregates with increasing membrane potential.

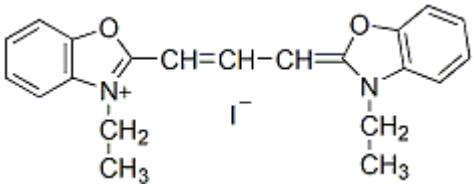
Product attributes

CAS number	905-96-4
For live or fixed cells	For live/intact cells
Assay type/options	Real-time imaging
Potential dependence	Slow response (translational) membrane potential dye
Colors	Green
Excitation/Emission	482/497 nm

Product Description

$DiOC_2(3)$ (3,3′-Diethyloxacarbocyanine, iodide) has been used for measuring membrane potentials in bacteria. The green fluorescent dye forms red fluorescent aggregates with increasing membrane potential. The spectral shifting phenomenon has been exploited to measure membrane potential ratiometrically.

- Ex/Em (MeOH) = 482/497 nm
- Orange solid soluble in DMSO or DMF
- Store at 4°C and protect from light
- $C_{21}H_{21}IN_2O_2$
- MW: 460.31
- [905-96-4]



References

1) Biophys J 56, 979 (1989).