Calbryte™ 590, potassium salt

Catalog number: 20706, 20707
Unit size: 5x50 ug, 1 mg

Product Details

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	12 months upon receiving

Chemical Properties

Appearance	Purple solid
Molecular Weight	1074.98
Soluble In	Water

Spectral Properties

Excitation Wavelength	581 nm
Emission Wavelength	593 nm

Applications

The intracellular calcium flux assay is a widely used method in monitoring signal transduction pathways and high throughput screening of G protein"coupled receptors (GPCRs) and calcium channel targets. Followed by Rhod-2 being introduced in 1989, Rhod-4 and Cal-590 were later developed with improved signal/background ratio, and they became the widely used red fluorescent Ca2+ indicators for confocal microscopy, flow cytometry and high throughput screening applications. Calbryte™ 590 is a new generation of red fluorescent indicators for the measurement of intracellular calcium. Its greatly improved signal/background ratio and intracellular retention properties make Calbryte™ 590 the most robust red fluorescent indicator for evaluating GPCR and calcium channel targets as well as for screening their agonists and antagonists in live cells.