



Fluo-2 AM

Lot 10614a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity*	≥ 95%	97.9%
Molecular Ion	<i>Common Peaks</i> 1061.31 ± 0.5 m/z (MH ⁺) 1083.29 ± 0.5 m/z (MNa ⁺) 531.16 ± 0.5 m/z (MH ₂ ²⁺)	<i>Detected Peaks</i> 1061.7 m/z Not Detected 531.4 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
Longest-Wavelength Absorbance Maximum**	490 ± 3 nm	493 nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation Max.; Emission Max.**	495 ± 3 nm; 515 ± 3 nm	493 nm; 515 nm
¹H NMR Spectrum	Bruker Avance 400	
Peaks and Integrations	Only relevant product peaks — with appropriate chemical shifts and peak integrations — and solvent peaks present	Confirmed
Cell Assay	BioTek Cytation 5 Imaging Reader	
F/F ₀ post-stimulus in relevant biological assay	≥ 2.53	2.95

*Column: Agilent Infinity Lab Poroshell 120 ECC18, 3.0 x 50 mm, 2.7 μm C₁₈, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: 10 mM CaCl₂, 140 mM KCl, 10 mM MOPS, 10 mM EGTA pH 7.2 (AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data)



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