



Fura-2 LR AM

Lot 10112a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity*	≥ 95%	96.7%
Molecular Ion	<i>Common Peaks</i> 1132.29 ± 0.5 m/z (MH ⁺) 1154.27 ± 0.5 m/z (MNa ⁺) 566.65 ± 0.5 m/z (MH ₂ ²⁺)	<i>Detected Peaks</i> 1132.6 m/z <i>Not Detected</i> 567.0 m/z
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
Longest-Wavelength Absorbance Maximum**	363 ± 3 nm	365 nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation Max.; Emission Max.**	363 ± 3 nm; 512 ± 3 nm	362 nm; 509 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 _{Bound/Unbound} / F _{Bound/Unbound, 0} post-stimulus in relevant biological assay	≥ 1.29	1.42

*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: Low-Calcium Buffer, AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data

Approved by P. Rogelio Escamilla Dec 2019