



Fura-2 AM

Lot 10614a

Method	Specification	Analysis
LCMS	Agilent 1220 Infinity II	
Purity*	≥ 95%	98.6 %
Molecular Ion	<i>Common Peaks</i> 1002.26 ± 0.5 m/z (MH ⁺) 1024.24 ± 0.5 m/z (MNa ⁺) 501.64 ± 0.5 m/z (MH ₂ ²⁺)	<i>Detected Peaks</i> 1002.6 m/z 1024.6 m/z Not Detected
Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer	
Longest-Wavelength Absorbance Maximum	338 ± 3 nm** 363 ± 3 nm***	337 nm 363 nm
Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer	
Excitation Max.; Emission Max.	336 ± 3 nm; 499 ± 3 nm** 363 ± 3 nm; 508 ± 3 nm***	335 nm; 500 nm 363 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 _{0 Bound/Unbound} post-stimulus in relevant biological assay	≥ 1.50	1.58

*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 prior to acquisition)

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Andrew Vergote
 Quality Manager
 17 Jul 2024