ION BIOSCIENCES

Certificate of Analysis

Fluo-4 AM

Lot 10618a

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity[1]	≥ 95%	97.6 %
Molecular Ion[2]	*Common Peaks* 1097.28 ± 0.5 m/z $[M+H]^+$ 549.14 ± 0.5 m/z $[M+2H]^{2+}$	*Detected Peaks* 1097.60 m/z 549.50 m/z
Absorbance Spectrum	**Agilent Cary 60 UV-VIS Spectrophotometer**	
UV-Visible λ_{max} [3]	494 ± 3 nm	494 nm
Fluorescence Spectrum	**Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer**	
Excitation λ_{max} [3] Emission λ_{max}	494 ± 3 nm 516 ± 3 nm	493 nm 516 nm
^{1}H NMR Spectrum	**Bruker Avance 400**	
Peaks and Integrations	Conforms to Structure	Conforms
Cell Assay	**FlexStation 3 Multi-Mode Microplate Reader**	
F/F_0 post-stimulus in relevant biological assay	≥ 3.30	4.43

[1]Column: Phenomenex 00d-4251-E0 Luna C_{18}, 4.6 x 100 mm, 100Å, 3 µm, UV-Vis Diode Array Detector: 254 nm; [2]Single Quad MS Detector: ESI Positive; [3]Solvent: 10 mM CaEGTA, 100 mM KCl, 10mM MOPS, pH 7.2, AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data

David Woody
Quality Manager 21 Sep 2024