ION BIOSCIENCES

Certificate of Analysis

IPG-2 AM

Lot 10713a

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity[1]	≥ 90%	92.5%
Molecular Ion[2]	*Common Peaks* 1127.4 ± 0.5 m/z $[M+H]^+$ 564.2 ± 0.5 m/z $[M+2H]^{2+}$	*Detected Peaks* 1127.7 m/z 564.6 m/z
Absorbance Spectrum	**Agilent Cary 60 UV-VIS Spectrophotometer**	
UV-Visible λ_{max} [3]	517 ± 3 nm	518 nm
Fluorescence Spectrum	**Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer**	
Excitation λ_{max} [3] Emission λ_{max}	517 ± 3 nm 540 ± 3 nm	517 nm 541 nm
^{1}H NMR Spectrum	**Bruker Avance 400**	
Peaks and Integrations	Conforms to Structure	Conforms
Cell Assay	**BioTek Cytation 5 Cell Imaging Multi-mode Reader**	
F/F_0 post-stimulus in relevant biological assay	To Pass Test	Passes
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence	Passes

[1]Column: Phenomenex 00D-4251-E0 Luna C_{18}, 4.6 x 100 mm, 3 µm , UV-Vis Diode Array Detector: 254 nm; [2]Single Quad MS Detector: ESI Positive; [3]Solvent: 140mM KCl in 10 mM MOPS pH 7.2, AM esters hydrolyzed to ion-sensing salt form prior to acquiring spectral data

David Woody
Quality Manager 16 Apr 2025