ION BIOSCIENCES

Certificate of Analysis

IPG-2 TMA^+ Salt

Lot 10118a

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity*	≥ 90%	94.7%
Molecular Ion (Acid Form)	*Common Peaks* 911.29 ± 0.5 m/z (MH^+) 933.27 ± 0.5 m/z (MNa^+) 456.15 ± 0.5 m/z (MH_2^{2+})	*Detected Peaks* 911.6 m/z Not Detected 456.4 m/z
Absorbance Spectrum	**Agilent Cary 60 UV-VIS Spectrophotometer**	
Longest-Wavelength Absorbance Maximum**	517 ± 3 nm	517 nm
Fluorescence Spectrum	**Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer**	
Excitation Max.; Emission Max.**	517 ± 3 nm; 540 ± 3 nm	515 nm; 541 nm
^{1}H NMR Spectrum	**Bruker Avance 400**	
Peaks and Integrations	Only relevant product peaks — with appropriate chemical shifts and peak integrations — and solvent peaks present	Confirmed
In Vitro Assay	**BioTek Cytation 5 Imaging Reader**	
F_{Stim} / F_{Ctrl} in relevant buffer solution assay	≥ 7.99	9.11

*Column: Agilent Infinity Lab Poroshell 120 ECC18, 3.0 x 50 mm, 2.7 µm C_{18}, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: 140mM KCl in MOPS

Approved by P. Rogelio Escamilla Aug 2019