ION BIOSCIENCES

Certificate of Analysis

ING-2 TMA$^+$ Salt

Lot 10021b

Method	Specification	Analysis
LCMS	**Agilent 1220 Infinity II**	
Purity*	≥ 90%	91.2 %
Molecular Ion (Acid Form)	*Common Peaks* 867.27 ± 0.5 m/z (MH^+) 889.25 ± 0.5 m/z (MNa^+) 434.14 ± 0.5 m/z (MH_2^{2+})	*Detected Peaks* 867.60 m/z 889.50 m/z 434.50 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	518 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	≥ 21.9	22.16

*Column: Agilent Infinity Lab Poroshell 120 EC-C18, 3.0 x 150 mm, 2.7 µm, UV-Vis Diode Array Detector: 254 nm, Single Quad MS Detector: ESI Positive; **solvent: 140mM NaCl in MOPS

Approved by P. Rogelio Escamilla Nov 2019

Re-analyzed Apr 2022