

IPG-1 TMA⁺ Salt

Membrane Impermeable, Yellow-Green Fluorescent Potassium Indicator. With lower potassium affinity than both IPG-2 and IPG-4, IPG-1 is tailored to measure changes in potassium in environments with high potassium concentrations. Can be used in lipid membrane-free systems, liposomes, or introduced into cells by electroporation, microinjection or other methods.



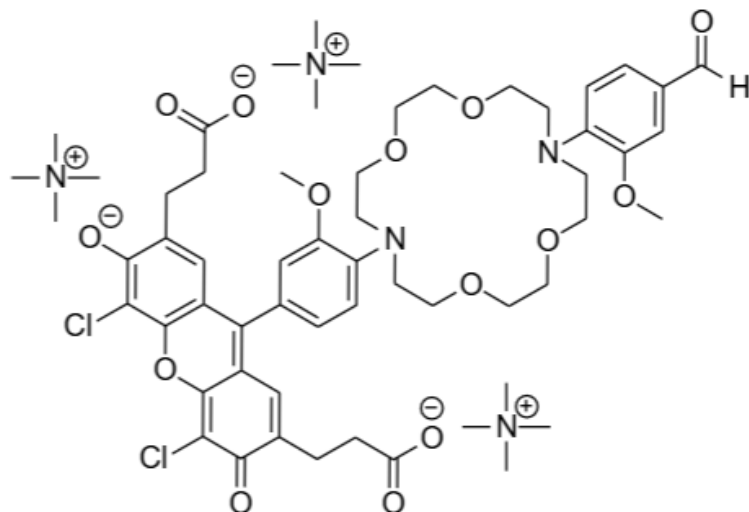
Available in these sizes:

3043C	500 µg x 1
3043F	50 µg x 10

Description	
CAS Number	1369302-17-9
PubChem CID	163342043
Molecular Weight	1145 g/mol
Solubility	Water
K _d	50 mM
Storage	-20°C
Appearance	Red to dark red film or pellet
Container	1.5 mL polypropylene cryogenic

Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer
Solvent*	High Potassium (K ⁺) Buffer
Absorbance max	517 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Potassium (K ⁺) Buffer
Excitation max	517 ± 3 nm
Emission max	540 ± 3 nm



LCMS	Agilent 1220 Infinity II
Column	Phenomenex 00D-4251-E0 Luna C ₁₈ , 4.6 x 100 mm, 100Å, 3 µm
UV-Vis Diode Array Detector	254 nm
Purity	≥ 90%
Single Quad MS Detector	ESI positive
Molecular Ion*	925.3 ± 0.5 m/z [M+H] ⁺ 463.1 ± 0.5 m/z [M+2H] ²⁺ *IPG-1 TMA ⁺ Salt is protonated to the acid form in the mobile phase and detected in ESI Positive Mode

¹ H NMR Spectrum	Bruker Avance 400
Solvent	CD ₃ OD
Spectra	Product conforms to structure

In Vitro Assay	BioTek Cytation 5 Cell Imaging Multi-mode Reader
F _{Stimulus} /F _{Control} in relevant biological buffer	To Pass Test