

IPG-4 AM



Membrane Permeable, Yellow-Green Fluorescent Potassium Indicator. Higher affinity for potassium than both IPG-1 and IPG-2, with improved selectivity for potassium over sodium.

Available in these sizes:

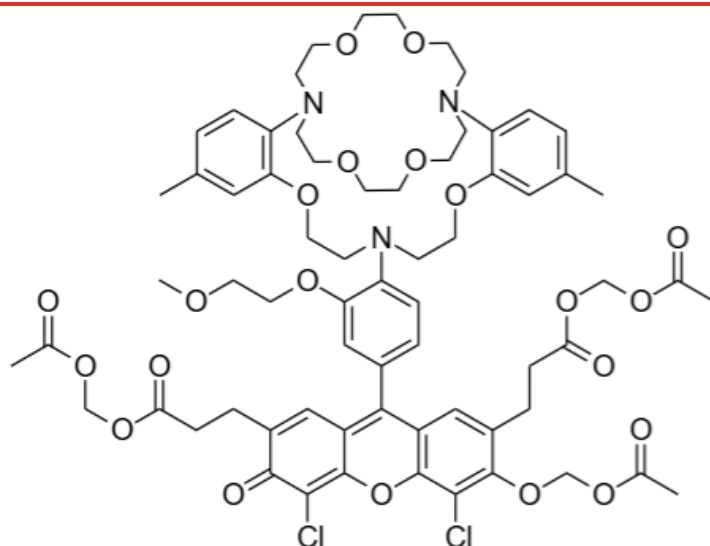
3021C	500 µg x 1
3021F	50 µg x 10
3021G	50 µg x 3

Description	
CAS number	N/A
PubChem CID	163342041
Molecular Weight	1331 g/mol
Solubility	DMSO
K _d	7 mM
Storage	-20°C
Appearance	Light 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	520 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Potassium (K ⁺) Buffer
Excitation max	517 ± 3 nm
Emission max	541 ± 3 nm

*Note: AM Esters are hydrolyzed to the ion sensing form



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	1332.5 ± 0.5 m/z [M+H] ⁺ 666.7 ± 0.5 m/z [M+2H] ²⁺

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

Cell Assay	BioTek Cytation 5 Cell Imaging Multi-mode Reader
F/F ₀ post stimulus in relevant biological assay	To Pass Test
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence