

ICR-1 K⁺ Salt



Membrane Impermeable, Red Fluorescent Calcium Indicator. Optimal for multiplexing and tissue imaging and compatible with fluorescence lifetime and multiphoton applications.

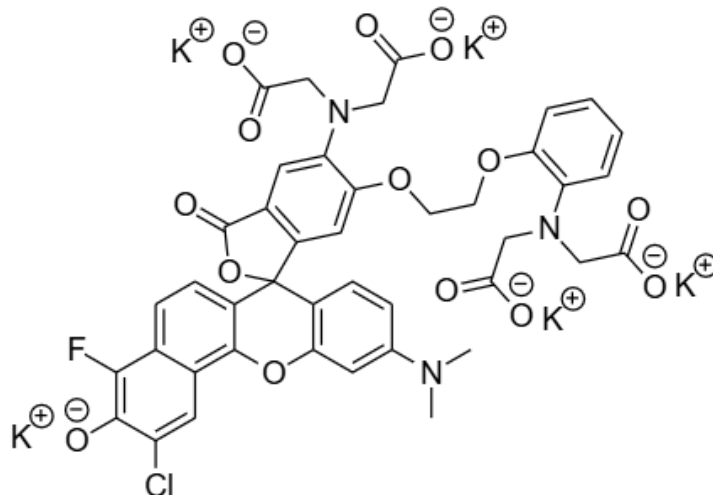
Available in these sizes:

1092C	500 µg x 1
1092F	50 µg x 10

Description	
CAS number	N/A
PubChem CID	N/A
Molecular Weight	1041 g/mol
Solubility	Water
K _d	480 nM
Storage	-20°C
Appearance	Dark blue film or pellet
Container	1.5 mL polypropylene cryogenic vial

Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer
Solvent	High Calcium (Ca ²⁺) Buffer Solution
Absorbance max	577 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent	High Calcium (Ca ²⁺) Buffer Solution
Excitation max	585 ± 3 nm
Emission max	644 ± 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*	860.2 ± 0.5 m/z [M+H] ⁺ 368.6 ± 0.5 m/z [M+2H] ²⁺
	*ICR-1 K ⁺ 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