

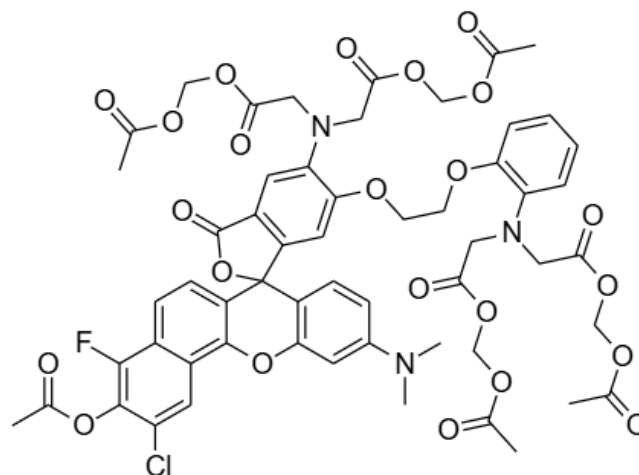
ICR-1 AM



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

Available in these sizes:

1091C	500 µg x 1
1091F	50 µg x 10
1091G	50 µg x 3



Description	
CAS number	N/A
PubChem CID	N/A
Molecular Weight	1189 g/mol
Solubility	DMSO
K _d	480 nM
Storage	-20°C
Appearance	Clear to white 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 (High Ca ²⁺)

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Calcium (Ca ²⁺) Buffer Solution
Excitation max	585 ± 3 nm (High Ca ²⁺)
Emission max	644 ± 3 nm (High Ca ²⁺)

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	1190.3 ± 0.5 m/z [M+H] ⁺ 595.7 ± 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 Ratio post stimulus in relevant biological assay	To Pass Test
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence

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