

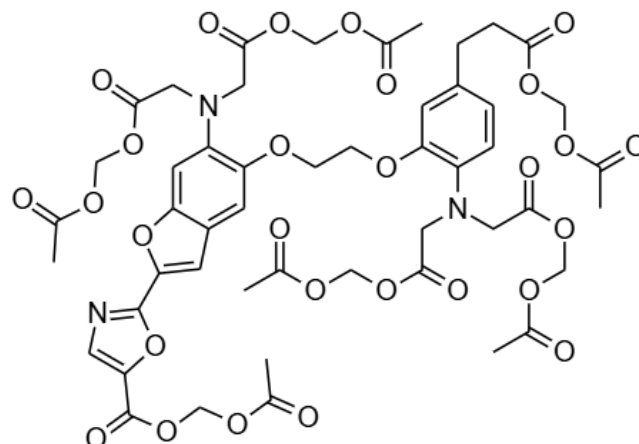
Fura-2 LR AM



Leakage Resistant, Membrane Permeable, UV-excitable, Ratiometric Green Fluorescent Calcium Indicator. Longer cellular retention compared to Fura-2 AM with similar spectral properties.

Available in these sizes:

1061B	1 mg x 1
1061E	50 µg x 20
1061G	50 µg x 5



Description	
CAS number	N/A
PubChem CID	166603961
Molecular Weight	1131 g/mol
Solubility	DMSO
K _d	145 nM
Storage	-20°C
Appearance	Yellow to yellow-green 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 Low Calcium (Ca ²⁺) Buffer Solution
Absorbance max	337 ± 3 nm (High Ca ²⁺) 363 ± 3 nm (Low Ca ²⁺)

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Calcium (Ca ²⁺) Buffer Solution Low Calcium (Ca ²⁺) Buffer Solution
Excitation max	337 ± 3 nm (High Ca ²⁺) 363 ± 3 nm (Low Ca ²⁺)
Emission max	500 ± 3 nm (High Ca ²⁺) 510 ± 3 nm (Low Ca ²⁺)

*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	≥ 95%
Single Quad MS Detector	ESI positive
Molecular Ion	1132.3 ± 0.5 m/z [M+H] ⁺ 566.7 ± 0.5 m/z [M+2H] ²⁺

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

Cell Assay	Molecular Devices FlexStation 3 Multi-Mode Microplate Reader & BioTek Cytation 5 Cell Imaging Multi-mode Reader
F _{Ratio} /F ₀ Ratio post stimulus in relevant biological	To Pass Test
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence