

Fura-2 K⁺ Salt



Membrane Impermeable form of Fura-2 LR, a Ratiometric Green Fluorescent Calcium Indicators. Can be used in lipid membrane-free systems, liposomes, or introduced into cells via electroporation, microinjection, or other methods

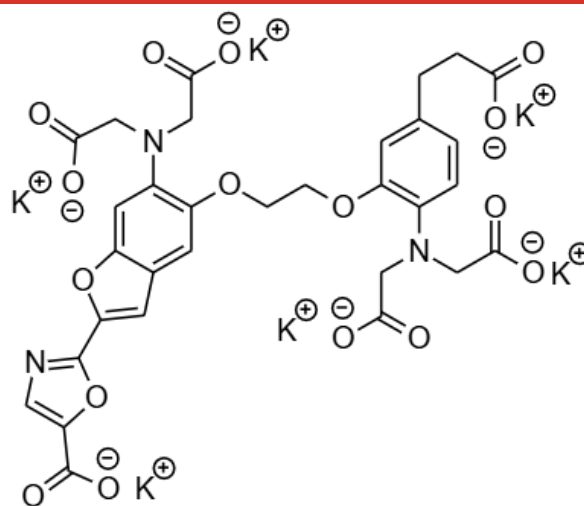
Available in these sizes:

1062B	1 mg x 1
1062E	50 µg x 20

Description	
CAS number	N/A
PubChem CID	N/A
Molecular Weight	928 g/mol
Solubility	Water
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⁺)



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*	700.4 ± 0.5 m/z [M+H] ⁺ 350.6 ± 0.5 m/z [M+2H] ²⁺ *Fura-2 LR K ⁺ Salt is protonated to the acid form in the mobile phase and detected in ESI Positive Mode

¹H NMR Spectrum	Bruker Avance 400
Solvent	D ₂ O
Spectra	Product conforms to structure

In Vitro Assay	BioTek Cytation 5 Cell Imaging Multi-mode Reader
$F_{\text{Bound}}/F_{\text{Control}}$ in relevant biological buffer	To Pass Test