

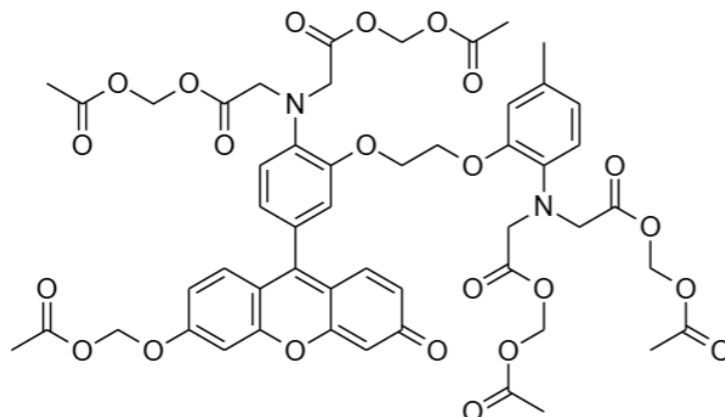
Fluo-2 AM



Membrane Permeable, Green Fluorescent Calcium Indicator. Higher Ca^{2+} affinity than Fluo-4, with superior intracellular loading.

Available in these sizes:

1021B	1 mg x 1
1021E	50 µg x 20
1021G	50 µg x 5



Description	
CAS number	1070771-36-6
PubChem CID	53390452
Molecular Weight	1060 g/mol
Solubility	DMSO
K_d	290 nM
Storage	-20°C
Appearance	Light red to red 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	490 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Calcium (Ca^{2+}) Buffer Solution
Excitation max	495 ± 3 nm
Emission max	515 ± 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	≥ 95%
Single Quad MS Detector	ESI positive
Molecular Ion	1061.3 ± 0.5 m/z [$\text{M}+\text{H}$] ⁺ 531.2 ± 0.5 m/z [$\text{M}+2\text{H}$] 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
F/F ₀ post stimulus in relevant biological	To Pass Test
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence