

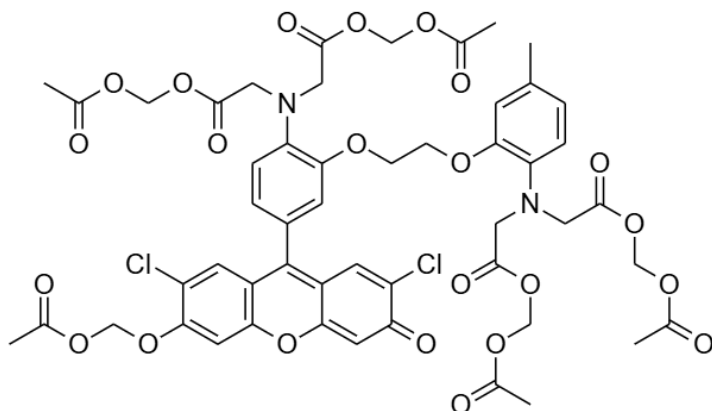
Fluo-3 AM



Membrane Permeable, Green Fluorescent Calcium Indicator, slightly Red-shifted compared to Fluo-4. Large dynamic range that may be better suited to high contrast imaging applications and is preferred over Fluo-4 for some cell types.

Available in these sizes:

1031B	1 mg x 1
1031E	50 µg x 20
1031G	50 µg x 5



Description	
CAS number	121714-22-5
PubChem CID	5086914
Molecular Weight	1128g/mol
Solubility	DMSO
K _d	390 nM
Storage	-20°C
Appearance	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	506 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Calcium (Ca ²⁺) Buffer Solution
Excitation max	506 ± 3 nm
Emission max	526 ± 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	1129.2 ± 0.5 m/z [M+H] ⁺ 1151.2 ± 0.5 m/z [M+Na] ⁺ 565.1 ± 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/F ₀ post stimulus in relevant biological assay	To Pass Test
Imaging Analysis	Observed fluorescence is intracellular with minimal extracellular fluorescence