

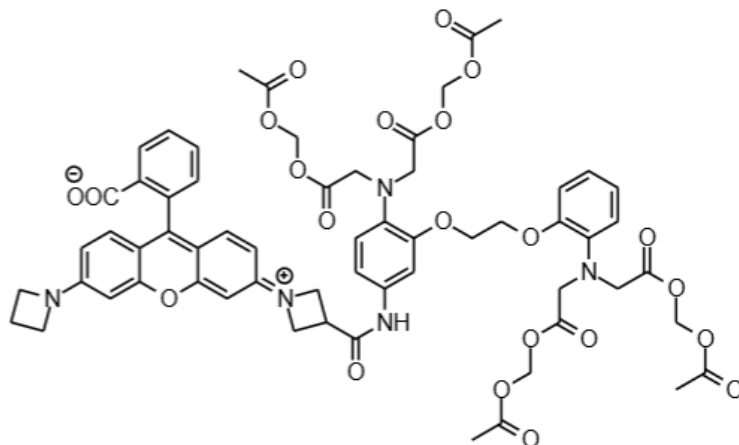
BAPTA JF™549 AM



Membrane Permeable, Red-shifted Fluorescent Calcium Indicator with a Janelia Fluor® dye backbone that provides excellent brightness and photostability. Red-shifted to minimize background autofluorescence and ideally suited for use with multicolor imaging and optogenetic tools.

Available in these sizes:

1049C	500 µg x 1
1049F	50 µg x 10
1049G	50 µg x 3



Description	
CAS number	N/A
PubChem CID	N/A
Molecular Weight	1215 g/mol
Solubility	DMSO
K _d	310 nM
Storage	-20°C
Appearance	Red to dark pink 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	546 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Calcium (Ca ²⁺) Buffer Solution
Excitation max	546 ± 3 nm
Emission max	569 ± 3 nm

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	1216.4 ± 0.5 m/z [M+H] ⁺ 608.7 ± 0.5 m/z [M+2H] ²⁺

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

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

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