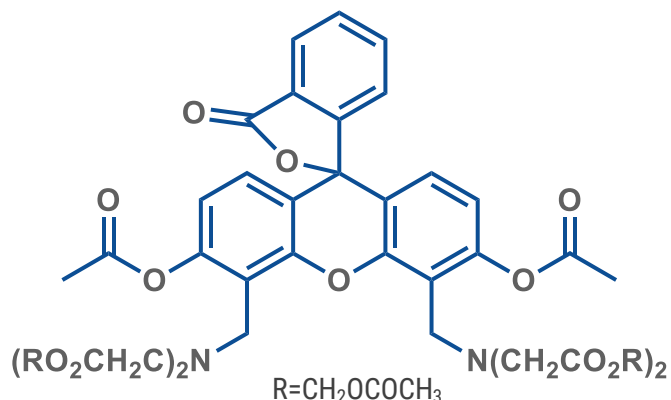


Catalog Number: 1071B | 1071E



## Calcein AM



Description	
CAS number	148504-34-1
PubChem CID	390986
Molecular Weight	995 g/mol
Solubility	DMSO

Absorbance Spectrum	
	Agilent Cary 60 UV-VIS Spectrophotometer
Solvent	0.1N KOH in methanol
Absorbance max	503 ± 3 nm
Absorptivity Coefficient	76,000 M <sup>-1</sup> cm <sup>-1</sup>

<sup>1</sup> H NMR Spectrum	
	Bruker Avance 400
Solvent	Deuterated chloroform
Only relevant product peaks – with appropriate chemical shifts and peak integrations – and solvent peaks present.	

<b>LCMS</b>	Agilent 1220 Infinity II
Column	Agilent Infinity Lab Poroshell 120 ECC18, 30 x 50 mm, 2.7 μm C <sub>18</sub>
UV-Vis Diode Array Detector	254 nm
Purity	≥ 95%
Single Quad MS Detector	ESI positive
Molecular Ion	995.26 ± 0.5 m/z (MH <sup>+</sup> ) 1017.024 ± 0.5 m/z (MNa <sup>+</sup> )

Fluorescence Spectrum	
	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer
Solvent	pH 9 aqueous buffer
Excitation max	495 nm
Emission max	515 nm

<b>TLC</b>	SiO <sub>2</sub> on Al backing with F <sub>254</sub>
Solvent	2:1 Ethyl Acetate / Hexane
R <sub>f</sub>	0.5 ± 0.1