

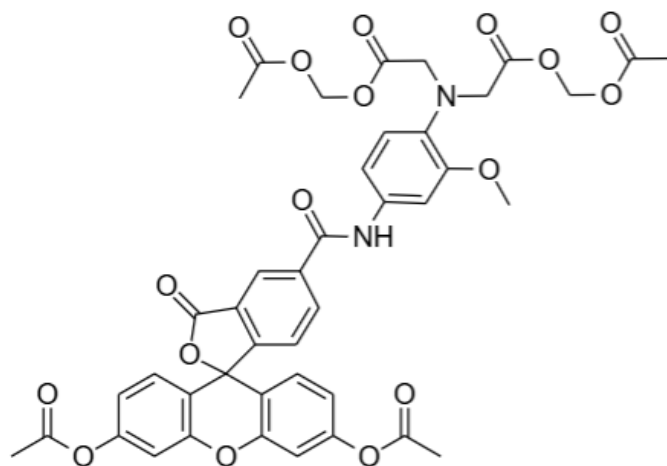
Thallos AM



Membrane Permeable, Best-in-Class Green Fluorescent Thallium (TI⁺) Indicator. Works with potassium (K⁺), sodium (Na⁺), and monovalent cation channels and transporters.

Available in these sizes:

1381C	500 µg x 1
1381F	50 µg x 10
1381G	50 µg x 3



Description	
CAS number	1802991-71-4
PubChem CID	118286581
Molecular Weight	840 g/mol
Solubility	DMSO
Storage	-20°C
Appearance	Clear to yellowish brown film or pellet
Container	1.5 mL polypropylene cryogenic vial

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	841.2 ± 0.5 m/z [M+H] ⁺

Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer
Solvent*	High Potassium (K ⁺) Buffer Solution, with 1.5 mM TI ₂ SO ₄ added
Absorbance max	495 ± 3 nm

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

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Potassium (K ⁺) Buffer Solution, with 1.5 mM TI ₂ SO ₄ added
Excitation max	494 ± 3 nm
Emission max	524 ± 3 nm

Cell Assay	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

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

Also check out our [Brilliant Thallium Assay Kit \(Cat# 11000\)](#) which contains Thallos AM and all the reagents needed to perform thallium flux assays in a convenient all-in-one kit. Available in sizes with enough materials for 2, 10, and 100 plates.