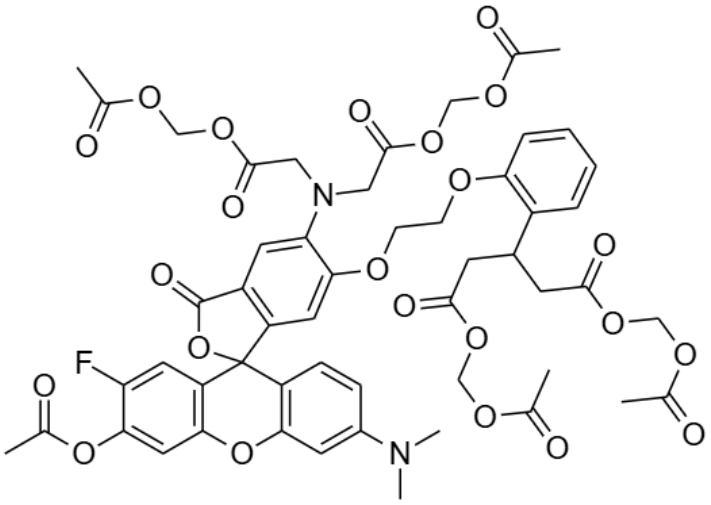
Product Specifications

Fluo-Gold AM

Membrane Permeable, Gold Fluorescent Calcium Indicator. The red-shifted Ex/Em enable multiplexing with GFP-expressing cells or other green fluorescent indicators, and minimizes interference from green fluorescent compounds.

Available in these sizes:	
1045B	500 µg x 1
1045E	50 µg x 10
1045G	50 µg x 3



Description	
CAS number	N/A
PubChem CID	N/A
Molecular Weight	1106 g/mol
Solubility	DMSO
K_d	400 nM
Storage	-20°C
Appearance	Clear to yellowish brown 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	520 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Calcium (Ca^{2+}) Buffer Solution
Excitation max	517 ± 3 nm
Emission max	550 ± 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	> 90%
Single Quad MS Detector	ESI positive
Molecular Ion	1097.3 ± 0.5 m/z $[M+H]^+$ 594.1 ± 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

Also check out our Brilliant Calcium Gold Assay Kit (Cat# 10020) which contains Fluo-Gold AM and all the reagents needed to perform calcium flux assays in a convenient all-in-one kit. Available in sizes with enough materials for 2 or 10 plates.