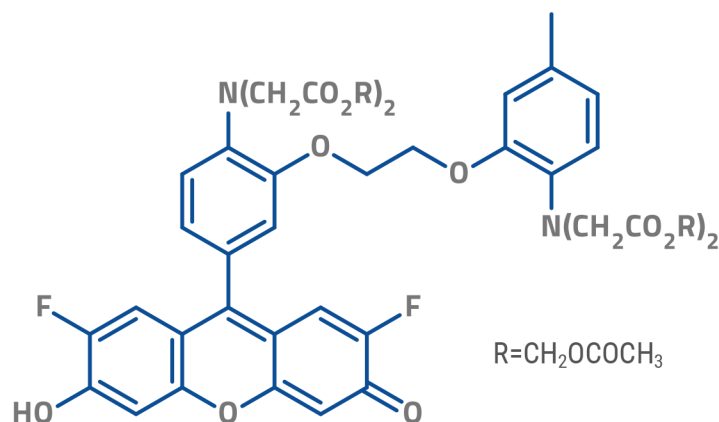


Product Specifications

Catalog Number: 1041C | 1041F



Fluo-4 AM



Description

CAS number	273221-67-3
PubChem CID	4060965
Molecular Weight	1097 g/mol
Solubility	DMSO
K _d for Ca ²⁺	355 nM

Absorbance Spectrum

Solvent	Ethyl acetate
Absorbance max	455 ± 3 nm
Absorptivity Coefficient (ε)	26,000 M ⁻¹ cm ⁻¹

¹H NMR Spectrum

	Bruker Avance 400
Solvent	Deuterated chloroform

Only relevant product peaks – with appropriate chemical shifts and peak integrations – and solvent peaks present.

LCMS

	Agilent 1220 Infinity II
Column	Agilent Infinity Lab Poroshell 120 ECC18, 30 x 50 mm, 2.7 μm C ₁₈
UV-Vis Diode Array Detector	254 nm
Purity	≥ 95%
Single Quad MS Detector	ESI positive
Molecular Ion	1097.28 ± 0.5 amu (MH ⁺), 1119.28 ± 0.5 amu (MNa ⁺)

Fluorescence Spectrum

	Horiba Jobin Yvon FluoroMax 4 Spectrofluorometer
Solvent	0.1M aq. KOH
Excitation max	490 nm
Emission max	515 nm

TLC

	SiO ₂ on Al backing with F ₂₅₄
Solvent	Ethyl acetate/ Hexane 2:1
R _f	0.6