

SBFI AM



Membrane Permeable, Ratiometric Green Fluorescent Sodium Indicator. UV-excitable, ~340nm can be used to measure Na⁺-bound SBFI and ~380nm can be used to detect Na⁺-free SBFI. It is ~18X more selective for Na⁺ over K⁺.

Available in these sizes:

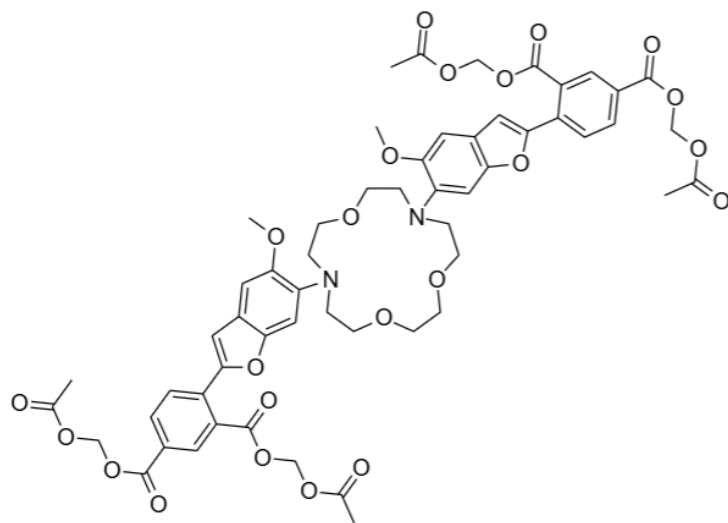
2021B	1 mg x 1
2021E	50 µg x 20
2021G	50 µg x 5

Description	
CAS number	129423-53-6
PubChem CID	434946
Molecular Weight	1127 g/mol
Solubility	DMSO
K _d (for Na ⁺)	4 mM
Storage	-20°C
Appearance	Orange film or pellet
Container	1.5 mL polypropylene cryogenic vial

Absorbance Spectrum	Agilent Cary 60 UV-VIS Spectrophotometer
Solvent*	High Sodium (Na ⁺) Buffer Solution
Absorbance max	333 ± 3 nm

Fluorescence Spectrum	Horiba Jobin Yvon FluoroMax Plus Spectrofluorometer
Solvent*	High Sodium (Na ⁺) Buffer Solution
Excitation max	333 ± 3 nm
Emission max	516 ± 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	≥ 95%
Single Quad MS Detector	ESI positive
Molecular Ion	1127.4 ± 0.5 m/z [M+H] ⁺ 564.7 ± 0.5 m/z [M+2H] ²⁺

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

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