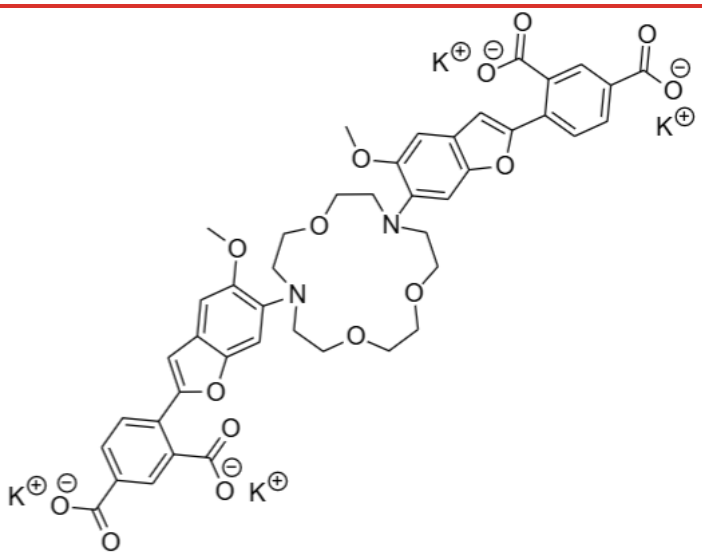
Product Specifications

SBFI K^+ Salt



Membrane Impermeable form of SBFI, a Ratiomtetric Green Fluorescent Sodium Indicator. Can be used in lipid membrane-free systems, liposomes, or introduced into cells by electroporation, microinjection or other methods.

Available in these sizes:	
2022B	1 mg x 1
2022E	50 µg x 20

Description	
CAS Number	N/A
PubChem CID	N/A
Molecular Weight	991 g/mol
Solubility	Water
K_d (for Na^+)	4 mM
Storage	-20°C
Appearance	Yellow 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	513 ± 3 nm

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*	839.3 ± 0.5 m/z $[M+H]^+$ 420.1 ± 0.5 m/z $[M+2H]^{2+}$ *SBFI K^+ Salt is protonated to the acid form in the mobile phase and detected in ESI Positive Mode

^1H NMR Spectrum	Bruker Avance 400
Solvent	CD_3OD
Spectra	Product conforms to structure

In Vitro Assay	BioTek Cytation 5 Cell Imaging Multi-mode Reader
$F_{Stimulus}/F_{Control}$ in relevant biological buffer	To Pass Test