

Product datasheet

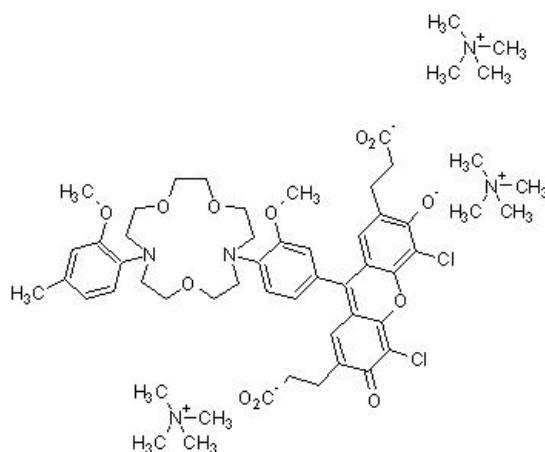
ION NaTRIUM Green™-2 TMA+ Salt, cytosolic Na⁺ indicator ab142803

1 Image

Overview

Product name	ION NaTRIUM Green™-2 TMA+ Salt, cytosolic Na ⁺ indicator
Description	Cell membrane impermeable cytosolic Na ⁺ indicator. Water soluble.
Purity	> 90%
General notes	<p>ION NaTRIUM Green™-2 TMA+ Salt, cytosolic Na⁺ indicator is a visible wavelength fluorescent indicator with a useful dynamic range for measuring cytosolic Na⁺ concentrations. It loads readily into cells and is excited by visible light. Although ANG-1 excites maximally at 517nm, its exceptional brightness enables excitation at the standard 488 nm settings used for the Fluo calcium indicators.</p> <p>Moreover, it works well for 2-photon excitation with near-infrared light. ANG-1 is also remarkable in its resistance to photobleaching and leakage. It is available as the tetramethylammonium (TMA⁺) salt and the acetoxymethyl (AM) ester. The TMA⁺ salt form is provided for patch-clamping and other direct methods of introducing the dye into cells, as well as for in vitro calibration of the dye.</p>

Chemical structure

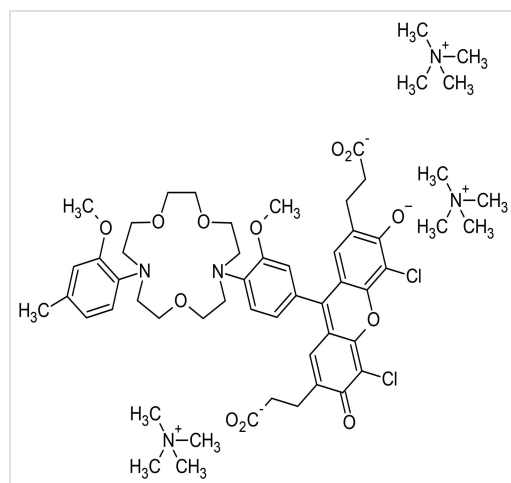


Properties

Excitation	525nm
Emission	545nm

Molecular weight	1087.19
Molecular formula	C ₅₆ H ₈₁ Cl ₂ N ₅ O ₁₂
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Refer to SDS for further information</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
SMILES	<chem>C[N+](C)(C)C.C[N+](C)(C)C.C[N+](C)(C)C.[O-]C(=O)CCC6=CC=2C(Oc1c(cc(CCC([O-])=O)c([O-])c1Cl)C=2c3ccc(c(OC)c3)N4CCOCCOCCN(CCOC4)c5ccc(C)cc5OC)=C(Cl)C6=O</chem>
Source	Synthetic

Images



Chemical Structure - ION NaTRIUM Green™-2
TMA+ Salt, cytosolic Na⁺ indicator (ab142803)

2D chemical structure image of ab142803, ION NaTRIUM Green™-2 TMA+ Salt, cytosolic Na⁺ indicator

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