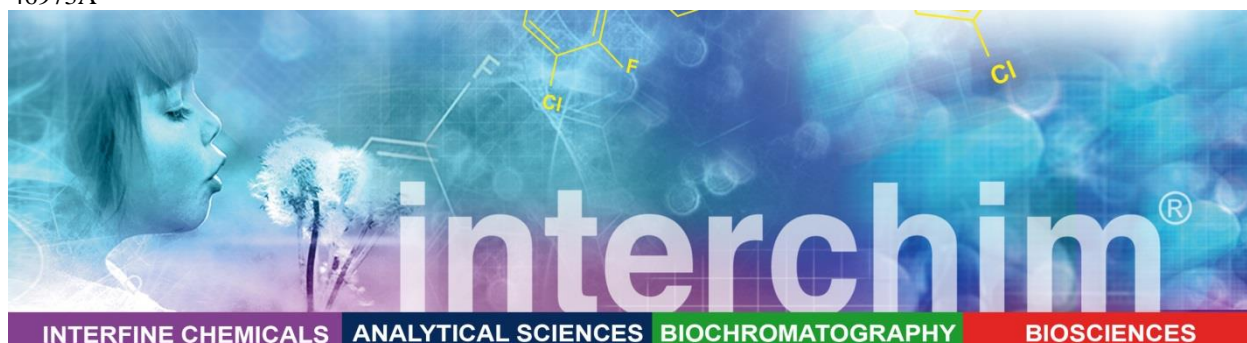


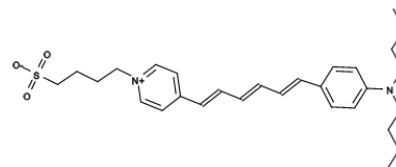
FT-46973A



RH 237

Products Description

Name :	RH 237 Syn.: [N-(4-Sulfobutyl)-4-(6-(4-(dibutylamino)phenyl)hexatrienyl)pyridinium, inner salt] FP-46973A, 5mg
Catalog Number :	
Molecular Weight :	MW=496.7 g/mol
Solubility:	DMSO
Absorption / Emission:	$\lambda_{exc} \backslash \lambda_{em} = 550 / 786 \text{ nm}$
Storage:	Freeze (<-15 °C), Minimize light exposure



Introduction

RH 237, also called N-(4-sulfobutyl)-4-(6-(4-(dibutylamino)phenyl)hexatrienyl)pyridinium, is a neuron-tracing dye. It is used for monitoring membrane potential, synaptic activity and ion channel activity of neurons.

References

- Lakireddy V, Baweja P, Syed A, Bub G, Boutjdir M, El-Sherif N., « Contrasting effects of ischemia on the kinetics of membrane voltage and intracellular calcium transient underlie electrical alternans » *Am J Physiol Heart Circ Physiol* (2005): H400
- Sacconi L, D'Amico M, Vanzi F, Biagiotti T, Antolini R, Olivotto M, Pavone FS. « Second-harmonic generation sensitivity to transmembrane potential in normal and tumor cells » *Biomed Opt* (2005): 24014
- Fast VG. « Simultaneous optical imaging of membrane potential and intracellular calcium » *J Electrocardiol* (2005): 107
- Fast VG, Cheek ER, Pollard AE, Ideker RE. « Effects of electrical shocks on Ca^{2+} and V_m in myocyte cultures », *Circ Res* (2004): 1589
- HS, Kogan B, Qu Z, Garfinkel A, Chen PS, Weiss JN. « Intracellular Ca dynamics in ventricular fibrillation » *Am J Physiol Heart Circ Physiol* (2004): H1836
- Byars JL, Smith WM, Ideker RE, Fast VG. « Development of an optrode for intramural multisite optical recordings of V_m in the heart » *J Cardiovasc Electrophysiol* (2003): 1196
- Fast VG, Ideker RE. « Simultaneous optical mapping of transmembrane potential and intracellular calcium in myocyte cultures » *J Cardiovasc Electrophysiol* (2000): 547
- Malkov DY, Sokolov VS. « Fluorescent styryl dyes of the RH series affect a potential drop on the membrane/solution boundary » *Biochim Biophys Acta* (1996): 197
- Gillis AM, Fast VG, Rohr S, Kleber AG. « Spatial changes in transmembrane potential during extracellular electrical shocks in cultured monolayers of neonatal rat ventricular myocytes » *Circ Res* (1996): 676
- Fast VG, Kleber AG. « Microscopic conduction in cultured strands of neonatal rat heart cells measured with voltage-sensitive dyes » *Circ Res* (1993): 914
- Muller W, Windisch H, Tritthart HA. « Fluorescent styryl dyes applied as fast optical probes of cardiac action potential » *Eur Biophys J* (1986): 103

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

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