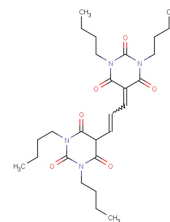


DiBAC4(3)

Chemical Properties

CAS No.:	70363-83-6
Formula:	C ₂₇ H ₄₀ N ₄ O ₆
Molecular Weight:	516.63
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DiBAC4(3) is a voltage-sensitive fluorescent dye ($\lambda_{em}=505$ nm, $\lambda_{ex}=490$ nm).
Targets(IC ₅₀)	Others: None
In vitro	The membrane hyperpolarization induced by 10 μ M Evans blue (EB) in HEK293 cells is clearly observed with DiBAC4(3), while the change in membrane potential by addition of 3 mM tetraethylammonium chloride appears more slowly than that measured with a microelectrode. The time to peak of hyperpolarization is 2.3 ± 0.9 s and 35.0 ± 2.6 s by the measurements with microelectrodes and DiBAC4(3), respectively.

Solubility Information

Solubility	DMSO: 55 mg/mL (106.46 mM) (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.936 mL	9.678 mL	19.356 mL
5 mM	0.387 mL	1.936 mL	3.871 mL
10 mM	0.194 mL	0.968 mL	1.936 mL
50 mM	0.039 mL	0.194 mL	0.387 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Yamada A, et al. Usefulness and limitation of DiBAC4(3), a voltage-sensitive fluorescent dye, for the measurement of membrane potentials regulated by recombinant large conductance Ca²⁺-activated K⁺ channels in HEK293 cells. Jpn J Pharmacol. 2001 Jul;86(3):342-50.

Inhibitors · Natural Compounds · Compound Libraries

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