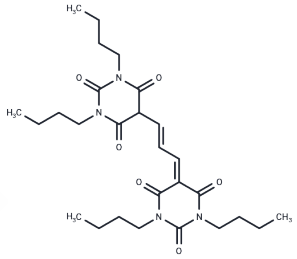
Data Sheet (Cat.No.T18974)

TargetMol

DiBAC4(3)

Chemical Properties



CAS No. : 70363-83-6

Formula: C27H40N4O6

Molecular Weight: 516.63

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	DiBAC4(3) is a voltage-sensitive fluorescent dye (λem=505 nm, λex=490 nm).
Targets(IC50)	Others
In vitro	Membrane hyperpolarization in HEKBKα, induced by 10 μM Evans blue (EB), is distinctly detected using DiBAC4(3), contrasting with the gradual alteration in membrane potential observed upon adding 3 mM tetraethylammonium chloride compared to microelectrode assessments. Hyperpolarization peak times are 2.3±0.9 s and 35.0±2.6 s, as measured with microelectrodes and DiBAC4(3), respectively.

Solubility Information

Solubility	DMSO: 55 mg/mL (106.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9356 mL	9.6781 mL	19.3562 mL
5 mM	0.3871 mL	1.9356 mL	3.8712 mL
10 mM	0.1936 mL	0.9678 mL	1.9356 mL
50 mM	0.0387 mL	0.1936 mL	0.3871 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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