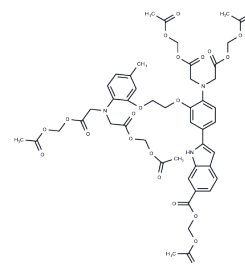


Indo-1 AM

Chemical Properties

CAS No. :	112926-02-0
Formula:	C47H51N3O22
Molecular Weight:	1009.91
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Indo-1 AM is an indicator of fluorescent Ca ²⁺ (λ_{ex} =340 nm, λ_{em} =405/485 nm).
Targets(IC50)	Others
In vitro	In rabbit hearts that are exposed to Indo-1 AM, 72% of the dye is in the cytosol, and the remainder is associated with the mitochondria, microsomes, and the nucleus [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9902 mL	4.9509 mL	9.9019 mL
5 mM	0.198 mL	0.9902 mL	1.9804 mL
10 mM	0.099 mL	0.4951 mL	0.9902 mL
50 mM	0.0198 mL	0.099 mL	0.198 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Andrienko T, et al. Real-Time Fluorescence Measurements of ROS and [Ca²⁺] in Ischemic / Reperfused Rat Hearts: Detectable Increases Occur only after Mitochondrial Pore Opening and Are Attenuated by Ischemic Preconditioning. PLoS One. 2016 Dec 1;11(12):e0167300.

Blatter LA, et al. Intracellular diffusion, binding, and compartmentalization of the fluorescent calcium indicators indo-1 and fura-2. Biophys J. 1990 Dec;58(6):1491-9.

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