

DiIC1(5)

Chemical Properties

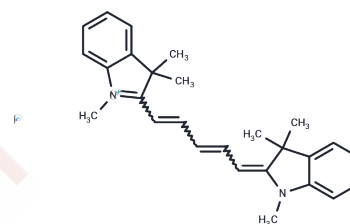
CAS No. : 36536-22-8

Formula: C₂₇H₃₁N₂

Molecular Weight: 510.463

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	DiIC1(5) is a signal-off fluorescent probe for the detection of mitochondrial membrane potential disruption. It accumulates in mitochondria and its fluorescence intensity decreases when the mitochondrial membrane potential is disrupted. DiIC1(5) has been used in combination with a variety of cell damage and cell death markers to classify nine stages of cell death using flow cytometry. It has also been used as a quencher for the detection of serine phosphorylation and tyrosine dephosphorylation post-translational modifications (PTMs) in quenching resonance energy transfer (QRET) and mTR-FRET applications. It displays excitation/emission maxima of 659/666 nm, respectively.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 20 mg/mL (39.18 mM), Sonication is recommended. DMF: 20 mg/mL (39.18 mM), Sonication is recommended. PBS (pH 7.2): 0.3 mg/mL (0.59 mM), Sonication is recommended. Ethanol: 2 mg/mL (3.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.959 mL	9.7951 mL	19.5902 mL
5 mM	0.3918 mL	1.959 mL	3.918 mL
10 mM	0.1959 mL	0.9795 mL	1.959 mL
50 mM	0.0392 mL	0.1959 mL	0.3918 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481