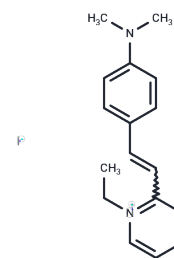


## DASPEI

## Chemical Properties

CAS No. :	3785-01-1
Formula:	C17H21IN2
Molecular Weight:	380.27
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	DASPEI, a cationic styrenyl mitochondrial dye, is characterized by a large Stokes shift and excitation/emission wavelengths at 550/573 nm, yielding robust chromogenic properties. It effectively stains mitochondria in live cells and labels presynaptic nerve endings regardless of neuronal activity [1].
Targets(IC50)	Others
In vitro	<p>Preparation of DASPEI Working Solution: Dissolve DASPEI in DMSO to create a 10 mM stock solution, which should be aliquoted and stored at -20°C or -80°C, protected from light. Dilute the stock with pre-warmed serum-free cell culture medium or PBS to a final concentration of 5-10 μM immediately before use. Adjust the concentration as needed for specific applications.</p> <p>Cell Staining for Suspension Cells: Collect cells by centrifugation and wash twice with PBS for 5 minutes each, targeting a cell density of 1×10<sup>6</sup>/mL. Add 1 mL of DASPEI working solution and incubate at room temperature for 30-60 minutes. Centrifuge at 400 g for 3-4 minutes, discard the supernatant, and wash the pellet twice with PBS for 5 minutes each. Finally, resuspend cells in 1 mL of serum-free medium or PBS for observation with a fluorescence microscope or flow cytometer.</p> <p>Cell Staining for Adherent Cells: Culture adherent cells on sterile coverslips. After culturing, transfer the coverslip from the medium, remove excess medium, and apply 100 μL of staining working solution. Gently agitate to ensure complete coverage and incubate for 30-60 minutes. Remove the staining solution, wash coverslips with culture medium 2-3 times for 5 minutes each, and observe using a fluorescence microscope.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.6297 mL	13.1486 mL	26.2971 mL
5 mM	0.5259 mL	2.6297 mL	5.2594 mL
10 mM	0.263 mL	1.3149 mL	2.6297 mL
50 mM	0.0526 mL	0.263 mL	0.5259 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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