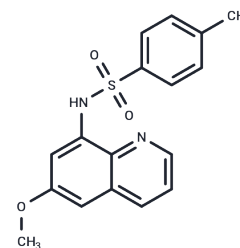


TSQ

Chemical Properties

CAS No. : 109628-27-5
 Formula: C₁₇H₁₆N₂O₃S
 Molecular Weight: 328.39
 Storage: Keep away from direct sunlight
 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	TSQ is a zinc fluorescent probe and zinc fluorescent chelator that binds to zinc to form a complex that induces apoptosis and can be used for imaging zinc proteins. The maximum excitation wavelength is 360 nm, and the maximum emission wavelength ranges from 470 to 490 nm. Light emitted by TSQ can be quenched by the Zn(2+) chelator, TPEN.
Targets(IC50)	Others
Cell Research	<p>Instructions:</p> <p>a. Reagent preparation: Prepare TSQ fluorescent probe solution according to the experimental purpose.</p> <p>b. Operation steps:</p> <ol style="list-style-type: none"> Culture the cells to be tested to an appropriate density and wash the cells with PBS buffer. Add an appropriate amount of TSQ fluorescent probe solution to a final concentration that depends on the cell type and experimental requirements, generally 1-10 μM. Incubate in a 37°C, 5% CO₂ incubator for 15-60 minutes. After incubation, wash the cells with PBS buffer to remove unbound TSQ probes. Observe the cells under a fluorescence microscope, the maximum excitation wavelength is 360 nm, and the maximum emission wavelength ranges from 470 to 490 nm. Detect the fluorescence signal of zinc ions in the cells. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	DMSO: 100 mg/mL (304.52 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	3.0452 mL	15.2258 mL	30.4516 mL
5 mM	0.609 mL	3.0452 mL	6.0903 mL
10 mM	0.3045 mL	1.5226 mL	3.0452 mL
50 mM	0.0609 mL	0.3045 mL	0.609 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

Meeusen JW, et al. TSQ (6-methoxy-8-p-toluenesulfonamido-quinoline), a common fluorescent sensor for cellular zinc, images zinc proteins. *Inorg Chem.* 2011 Aug 15;50(16):7563-73.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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