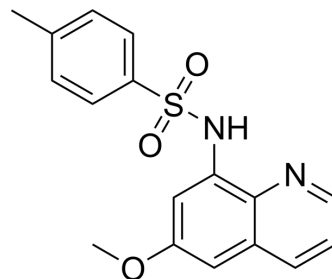


TSQ

Cat. No.:	HY-119287
CAS No.:	109628-27-5
Molecular Formula:	C ₁₇ H ₁₆ N ₂ O ₃ S
Molecular Weight:	328.39
Target:	Fluorescent Dye
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (304.52 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
	1 mM		3.0452 mL	15.2258 mL	30.4516 mL
	5 mM		0.6090 mL	3.0452 mL	6.0903 mL
	10 mM		0.3045 mL	1.5226 mL	3.0452 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TSQ is a cytosolic zinc fluorescence probe that is membrane permeable and can be used for intracellular imaging of zinc proteins ($\lambda_{\text{max}} \sim 470$ nm). TSQ can combine with Zn²⁺ in the presence of Ca²⁺ and Mg²⁺ to produce blue fluorescence^[1].

In Vitro

The recommended working concentration of TSQ is 0.1 μ M-10 μ M.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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