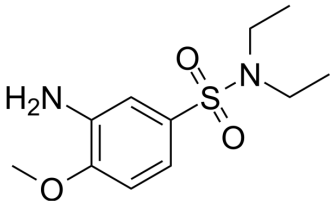
Fast Red ITR

Cat. No.:	HY-W040295		
CAS No.:	97-35-8		
Molecular Formula:	$C_{11}H_{18}N_2O_3S$		
Molecular Weight:	258.34		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (387.09 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.8709 mL	19.3543 mL	38.7087 mL
5 mM	0.7742 mL	3.8709 mL	7.7417 mL
10 mM	0.3871 mL	1.9354 mL	3.8709 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.68 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fast Red ITR is a nonlinear optical material[1]. Fast Red ITR can be used in alkaline phosphatase histochemistry[1][2].

REFERENCES

[1]. Shinzo Muto, et al. Second-and third-harmonic generation of Nd: glass laser in fast red ITR organic crystal fiber. Japanese Journal of Applied Physics. 1998.

[2]. Ziomek CA, et al. A highly fluorescent simultaneous azo dye technique for demonstration of nonspecific alkaline phosphatase activity. J Histochem Cytochem. 1990 Mar;38(3):437-42.

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