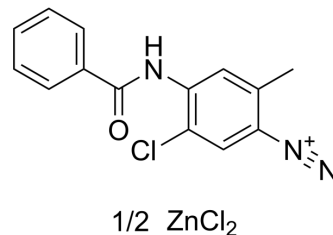


Fast Red Violet LB Zinc chloride

Cat. No.:	HY-D1491A		
Molecular Formula:	C ₁₄ H ₁₁ ClN ₃ O _{.1/2} ZnCl ₂		
Molecular Weight:	340.86		
Target:	Fluorescent Dye		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (183.36 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.9338 mL	14.6688 mL	29.3376 mL
		5 mM		0.5868 mL	2.9338 mL	5.8675 mL
		10 mM		0.2934 mL	1.4669 mL	2.9338 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: ≥ 2.08 mg/mL (6.10 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (6.10 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Fast Red Violet LB Zinc chloride is a stain that stains tartrate-resistant acid phosphatase (TRAP) and Fast Red Violet LB Zinc chloride can be used to stain alkaline phosphatase (ALP) activity ^{[1][2]} .
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REFERENCES

[1]. Yan D, et al. Genetic background influences fluoride's effects on osteoclastogenesis. *Bone*. 2007 Dec;41(6):1036-44.

[2]. Kotobuki N, et al. Cultured autologous human cells for hard tissue regeneration: preparation and characterization of mesenchymal stem cells from bone marrow. *Artif Organs*. 2004 Jan;28(1):33-9.

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

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