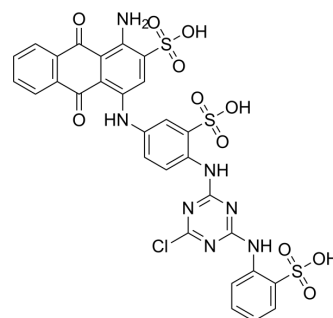


Cibacron Blue 3G-A

Cat. No.:	HY-129042
CAS No.:	84166-13-2
Molecular Formula:	C ₂₉ H ₂₀ ClN ₇ O ₁₁ S ₃
Molecular Weight:	774.16
Target:	Fluorescent Dye; Beta-lactamase
Pathway:	Others; Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 62.5 mg/mL (80.73 mM; Need ultrasonic)						
	1M NaOH : 10 mg/mL (12.92 mM; ultrasonic and adjust pH to 12 with NaOH)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.2917 mL	6.4586 mL	12.9172 mL
				5 mM	0.2583 mL	1.2917 mL	2.5834 mL
10 mM				0.1292 mL	0.6459 mL	1.2917 mL	
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.69 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Cibacron Blue 3G-A is an anthraquinone dye, inhibits the R46 β-lactamase with a K _i value of 1.2 μM ^[1] .
IC ₅₀ & Target	IC50: anthraquinone dye ^[1]
In Vitro	Cibacron Blue 3G-A is a structural analogy between the dye and NADH, it interacts with (di)nucleotide-dependent enzymes and can be a standard tool for studying their active sites ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Biochem Biophys Res Commun. 2023 Jul 12, 665, 64-70.

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REFERENCES

[1]. Monaghan C, et al. The interaction of anthraquinone dyes with the plasmid-mediated OXA-2 beta-lactamase. Biochem J. 1982 Aug 1;205(2):413-7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA