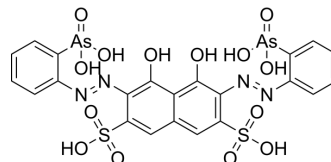


Arsenazo III

Cat. No.:	HY-D0202
CAS No.:	1668-00-4
Molecular Formula:	C ₂₂ H ₁₈ As ₂ N ₄ O ₁₄ S ₂
Molecular Weight:	776.37
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 : 10 mg/mL (12.88 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.2880 mL	6.4402 mL	12.8805 mL
	5 mM	0.2576 mL	1.2880 mL	2.5761 mL
	10 mM	0.1288 mL	0.6440 mL	1.2880 mL

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

BIOLOGICAL ACTIVITY

Description

Arsenazo III is a dye useful for detection of micromolar concentrations of ionized Ca²⁺. Arsenazo III can be used for determination of thorium, zirconium, uranium and rare earth elements^{[1][2]}.

REFERENCES

[1]. Arsenazo III is a dye useful fKendrick NC. Purification of arsenazo III, a Ca²⁺-sensitive dye. Anal Biochem. 1976 Dec;76(2):487-501.

[2]. Sawin S B. Analytical use of arsenazo III: determination of thorium, zirconium, uranium and rare earth elements. Talanta, 1961, 8(9): 673-685.

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

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