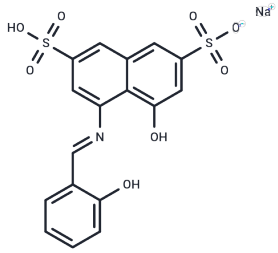
Data Sheet (Cat.No.TD0094)

TargetMol

Azomethine-H monosodium

Chemical Properties



CAS No. : 5941-07-1

Formula: C17H12NNaO8S2

Molecular Weight: 445.4

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Azomethine-H monosodium (Azomethine H) is a colour-forming reagent and a boron determinations reagent.
Targets(IC50)	Others
Cell Research	I. Determination of Boron 1. Solution preparation: Dissolve Azomethine-H monosodium salt in an appropriate solvent. Common solvents include water or alcohol solutions. b. Reaction of Boron: Mix the boron solution in the sample to be tested with the Azomethine-H solution. The pH value may need to be adjusted during the reaction (usually neutral or slightly alkaline). c. Measurement: Measure the absorbance after the reaction by a spectrophotometer, usually at 420 nm, to calculate the concentration of boron in the sample. d. Standard curve: Use a boron solution of known concentration to draw a standard curve to quantify the boron content in an unknown sample. II. Detection of other metal elements When reacting with other metal ions, the reaction conditions (such as pH and solvent) need to be adjusted according to the reaction characteristics of the specific metal. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	DMSO: 80 mg/mL (179.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2452 mL	11.2259 mL	22.4517 mL
5 mM	0.449 mL	2.2452 mL	4.4903 mL
10 mM	0.2245 mL	1.1226 mL	2.2452 mL
50 mM	0.0449 mL	0.2245 mL	0.449 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

F.J.Krug, et al. Flow injection spectrophotometric determination of boron in plant material with azomethine-H. Analytica Chimica Acta, 125, 29-35.
Roberto R. Spencer, et al. Azomethine H colorimetric method for determining dissolved boron in water. Environmental Science & Technology, 13(8), 954-956.

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