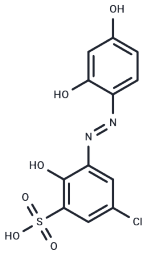
Data Sheet (Cat.No.T20984)

TargetMol

Lumogallion

Chemical Properties



CAS No. : 4386-25-8

Formula: C12H9ClN2O6S

Molecular Weight: 344.73

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	Lumogallion (4-Chloro-3-(2,4-dihydroxyphenylazo)-2-hydroxybenzene-1-sulfonic acid) is an azo reagent used in the determination of metal ions, such as the research of V, Fe, and Al.
Targets(IC50)	Others
In vitro	Instructions a. Solution preparation: Dissolve lumogallion in DMSO or 0.1 M acetate buffer (pH 5.2) and prepare a 10mM storage solution for later use. Note: The storage solution needs to be stored at -20°C or -80°C. Please avoid repeated freezing and thawing. The diluted working solution should be prepared and used as soon as possible. b. Operation steps: 1. Incubate the sample with 10 μM lumogallion in the dark for 60 min. 2. Wash the mixed sample twice with acetate buffer, 15 minutes each time. 3. Observe under a laser confocal microscope, with an excitation wavelength of 488 nm and an emission wavelength of 520 nm. The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Solubility Information

Solubility	DMSO: 123.75 mg/mL (358.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (29.01 mM),Suspension. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9008 mL	14.5041 mL	29.0082 mL
5 mM	0.5802 mL	2.9008 mL	5.8016 mL
10 mM	0.2901 mL	1.4504 mL	2.9008 mL
50 mM	0.058 mL	0.2901 mL	0.5802 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

Mile I, et al. Al adjuvants can be tracked in viable cells by lumogallion staining. J Immunol Methods. 2015 Jul;422: 87-94.