
Product Data Sheet

Product Name: Alizarin-3-methyliminodiacetic Acid

Cat. No.: GC41541

Chemical Properties

Cas. No. 3952-78-1

SMILES O=C1C2=C(C(O)=C(O)C(CN(CC(O)=O)CC(O)=O)=C2)C(C3=C1C=CC=C3)=OFormula C₁₉H₁₅NO₈

M.Wt 385.3

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS (pH 7.2)
(1:7): 0.125 mg/mlStorage Store at -
20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Alizarin-3-methyliminodiacetic acid is a colorimetric dye for the detection of fluoride ions. It reacts with fluoride to form a lilac-blue complex which can be quantified colorimetrically at 620 nm to determine fluoride concentration. Alizarin-3-methyliminodiacetic acid has been used to visualize fluoride deposition and bone mineralization during development in medaka larvae. It is also an inhibitor of inducible nitric oxide synthase (iNOS; IC₅₀ = 35 nM).

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

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