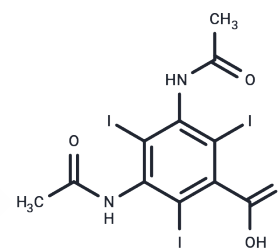


Diatrizoic Acid

Chemical Properties

CAS No. :	117-96-4
Formula:	C ₁₁ H ₉ I ₃ N ₂ O ₄
Molecular Weight:	613.91
Storage:	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	Diatrizoic Acid (Amidotrizoic acid) is an organic, iodinated radiopaque X-ray contrast medium used in diagnostic radiography.
Targets(IC50)	Apoptosis
Kinase Assay	Radiochemical enzyme assays for COX-1 and COX-2: 10 µL of purified COX-1 (0.7-0.8 µg) or COX-2 (3.0 units, 0.3µg) is activated with 50 µL of cofactor solution [l-epinephrine (1.3 mg/mL), reduced glutathione (0.3 mg/mL), and hematin (1.3 mg/mL) in oxygen-free Tris-HCl buffer (pH 8.0)]. The enzyme solution (60 µL) is added to Ibuprofen solutions or DMSO (20 µL) after [¹⁴ C]arachidonic acid is added in 0.2 mL eight-strip test tubes and preincubated 10 minutes on ice. Samples are incubated for 15 minutes at 37 °C, after which the reaction is terminated by addition of 10 µL of 2 M HCl and 5 µL of carrier solution (PGE2 and PGF2α, 0.2 µg/mL of each in EtOH). The unmetabolized arachidonic acid is separated from the prostaglandin products by column chromatography and eluted with n-hexane-dioxane-glacial acetic acid (70:30:1). The prostaglandin products are then eluted with EtOAc-MeOH (85:15), and the samples are counted in a Packard scintillation spectrometer. IC50 values are obtained by linear regression analysis.

Solubility Information

Solubility	DMSO: 55 mg/mL (89.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.26 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6289 mL	8.1445 mL	16.289 mL
5 mM	0.3258 mL	1.6289 mL	3.2578 mL
10 mM	0.1629 mL	0.8145 mL	1.6289 mL
50 mM	0.0326 mL	0.1629 mL	0.3258 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

Rastogi T, et al. Sci Total Environ. 2014 Jun 1;482-483:378-88.

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