

## Ioxitalamic Acid

## Chemical Properties

CAS No. : 28179-44-4

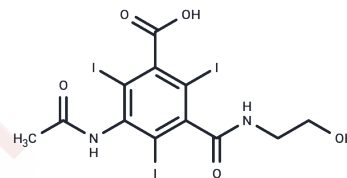
Formula: C<sub>12</sub>H<sub>11</sub>I<sub>3</sub>N<sub>2</sub>O<sub>5</sub>

Molecular Weight: 643.94

Keep away from direct sunlight

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	Ioxitalamic Acid (Acidum Ioxitalamicum) is a medical contrast medium and enhances the contrast of structures or fluids in the body in medical imaging.
Targets(IC50)	Others
Animal Research	<p>I. Solution preparation</p> <ol style="list-style-type: none"> <li>Preparation of storage solution: Dissolve Ioxitalamic Acid in methanol to prepare a 1.0 mg/mL storage solution; (It is recommended to store at -20 °C or -80 °C in the dark after aliquoting)</li> <li>Preparation of working solution: Dilute the Ioxitalamic Acid stock solution to prepare a 10 µg/mL working solution; (Select the appropriate working solution concentration according to experimental requirements and prepare it for immediate use)</li> </ol> <p>II. Operation steps</p> <ol style="list-style-type: none"> <li>Angiography: Intravenous injection: used for angiography and CT enhanced scanning.</li> <li>Arterial injection: used for angiography of specific parts.</li> <li>Oral or enema: used for gastrointestinal angiography.</li> </ol>

## Solubility Information

Solubility	DMSO: 55 mg/mL (85.41 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: 1.67 mg/mL (2.59 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

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	1mg	5mg	10mg
1 mM	1.5529 mL	7.7647 mL	15.5294 mL
5 mM	0.3106 mL	1.5529 mL	3.1059 mL
10 mM	0.1553 mL	0.7765 mL	1.5529 mL
50 mM	0.0311 mL	0.1553 mL	0.3106 mL

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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

Lopez-Prieto IJ, et al. A direct injection liquid chromatography tandem mass spectrometry method for the kinetic study on iodinated contrast media (ICMs) removal in natural water. *Chemosphere*. 2020 Mar;243:125311.

van der Leede H, Jorens PG, Parizel P, Cras P. Inadvertent intrathecal use of ionic contrast agent. *Eur Radiol*. 2002 Dec;12 Suppl 3:S86-93. Epub 2002 Jun 4. Review.

Sergeev PV, Sviridov NK, Poliaev IuA, Shimanovskii NL. [Diagnostic effectiveness and safety of currently available X-ray contrast media]. *Vestn Rentgenol Radiol*. 1999 Nov-Dec;(6):45-9. Review. Russian.

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