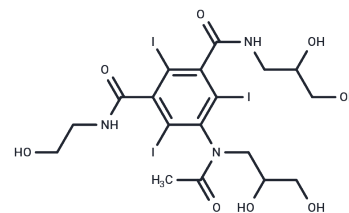


Ioxilan

Chemical Properties

CAS No. :	107793-72-6
Formula:	C ₁₈ H ₂₄ I ₃ N ₃ O ₈
Molecular Weight:	791.11
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Ioxilan is a low-osmolar, nonionic, and tri-iodinated diagnostic contrast agent used for excretory urography and contrast-enhanced computed tomographic (CECT) imaging of the head and body. Intravascularly injected causes opacification of vessels, allowing for radiographic visualization of internal structures until significant hemodilution occurs.
Targets(IC ₅₀)	Others
In vitro	The development of Ioxilan incorporates a dual methylene structure to act as a hydrophobic region, which is then concealed by a hydrophilic hydroxyl group. This modification reduces osmolality without compromising biological tolerance. As a low-osmolar, nonionic monomer, Ioxilan enhances the safety and tolerability of X-ray contrast agents.
In vivo	Rapid intravenous injection of (water-soluble) X-ray contrast agents (Ioxilan), used in conjunction with dynamic computed tomography, enhances the visualization of liver lesions. These agents, primarily remaining in the extracellular fluid and excreted unchanged by the kidneys, distribute effectively post-injection. The degree of contrast enhancement in a specific region is influenced by the administration method, the delivery of the agent via blood flow, and the resultant iodine concentration in that area.

Solubility Information

Solubility	DMSO: 250 mg/mL (316.01 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.264 mL	6.3202 mL	12.6405 mL
5 mM	0.2528 mL	1.264 mL	2.5281 mL
10 mM	0.1264 mL	0.632 mL	1.264 mL
50 mM	0.0253 mL	0.1264 mL	0.2528 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.

Reference

Cheng KT. Ioxilan carbonate particles. National Center for Biotechnology Information (US); 2004-2013. 2007 Sep 1.
Chow SL, et al. Effect of iodixanol and ioxilan on QT interval and renal function in patients with systolic heart

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