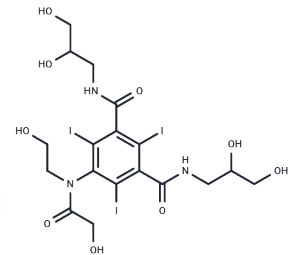


Ioversol

Chemical Properties

CAS No. :	87771-40-2
Formula:	C ₁₈ H ₂₄ I ₃ N ₃ O ₉
Molecular Weight:	807.11
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ioversol (MP-328) is a nonionic, iodinated contrast agent.
Targets(IC50)	Others
In vitro	Ioversol significantly increases apoptosis and caspase-3 protein expression in the NRK-52E cells exposed to Ioversol for 4 h. Ioversol treatment induces a significant increase in [Ca ²⁺] _i and intracellular ROS. Ioversol (100 mg iodine/ml) exposure induces significantly increased lactate dehydrogenase release and decreased 3-(4,5-dimethyl-2-yl)-2,5-diphenyl tetrazolium bromide conversion in NRK-52E cells.
In vivo	In comparison with Iothalamate, Ioversol has a greatly reduced propensity to stimulate the release of endothelin, from cultured cells and when injected into anesthetized rats. Ioversol produces less renal vasoconstriction than does Iothalamate, in control and in USIC rats, and the development of radiocontrast nephropathy, assessed by creatinine clearance and morphologic damage to the renal medulla, is largely avoided.

Solubility Information

Solubility	DMSO: 50 mg/mL (61.95 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: 2.5 mg/mL (3.1 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	1.239 mL	6.1949 mL	12.3899 mL
5 mM	0.2478 mL	1.239 mL	2.478 mL
10 mM	0.1239 mL	0.6195 mL	1.239 mL
50 mM	0.0248 mL	0.1239 mL	0.2478 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

Yang D, et al. Selective inhibition of the reverse mode of Na(+)/Ca(2+) exchanger attenuates contrast-induced cell injury. *Am J Nephrol.* 2013;37(3):264-73. doi: 10.1159/000348526. Epub 2013 Mar 13.

Heyman SN, et al. Effects of ioversol versus iohalamate on endothelin release and radiocontrast nephropathy. *Invest Radiol.* 1993 Apr;28(4):313-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481