



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: 碘佛醇
产品别名: Ioversol ; MP-328

生物活性:

Description	Ioversol is a nonionic iodinated contrast agent.				
In Vitro	Ioversol (100 mg iodine/ml) exposure induces significantly increased lactate dehydrogenase release and decreased 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl tetrazolium bromide conversion in NRK-52E cells. 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[1].				
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[2].				
Solvent&Solubility	In Vitro: DMSO : ≥ 100 mg/mL (123.90 mM) * "≥" means soluble, but saturation unknown.				
		SolventMassConcentration	1 mg	5 mg	10 mg
	Preparing	1 mM	1.2390 mL	6.1949 mL	12.3899 mL
	Stock Solutions	5 mM	0.2478 mL	1.2390 mL	2.4780 mL
		10 mM	0.1239 mL	0.6195 mL	1.2390 mL
*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80℃, 6 months; -20℃, 1 month (protect from light)。-80℃ 储存时, 请在 6 个月内使用, -20℃ 储存时, 请在 1 个月内使用。					
References	[1]. 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. [2]. Heyman SN, et al. Effects of Ioversol versus Iothalamate on endothelin release and radiocontrast nephropathy. Invest Radiol. 1993 Apr;28(4):313-8.				
实验参考:					
Cell Assay	Cell viability is assessed by using the MTT uptake assay. The conversion of MTT, a tetrazolium salt, into formazan depends on the activity of a group of mitochondrial dehydrogenases and, thus, is an indicator of cell metabolic activity. The color of MTT tetrazole salt is measured with a spectrophotometer at the wavelength of 570 nm. Briefly, fresh MTT solution (10 mg/mL in 1× PBS) is added (1:20 volume of medium) after removing the medium and the cells are incubated for 1.5 h. The cells are lysed and purple formazan dissolved into the solution by overnight incubation with MTT lysis buffer. The results are expressed as the percentage of undamaged control cells, assuming the absorbance of control wells as 100%.[1]				
	[1]. Yang D, et al. Selective inhibition of the reverse mode of Na(+)/Ca(2+) exchanger attenuates				



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

References	contrast-induced cell injury. Am J Nephrol. 2013;37(3):264-73. doi: 10.1159/000348526. Epub 2013 Mar 13. [2]. Heyman SN, et al. Effects of ioversol versus iothalamate on endothelin release and radiocontrast nephropathy. Invest Radiol. 1993 Apr;28(4):313-8.
-------------------	--



源叶生物