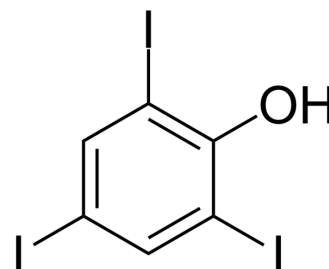


2,4,6-Triiodophenol

Cat. No.:	HY-W073687
CAS No.:	609-23-4
Molecular Formula:	C ₆ H ₃ I ₃ O
Molecular Weight:	471.8
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (529.89 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1195 mL	10.5977 mL	21.1954 mL
	5 mM		0.4239 mL	2.1195 mL	4.2391 mL
	10 mM		0.2120 mL	1.0598 mL	2.1195 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

2,4,6-Triiodophenol is an orally active and potent leukotriene B₄ (LTB₄) synthesis inhibitor. 2,4,6-Triiodophenol can induce mouse blastocysts apoptosis^{[1][2]}.

In Vitro

2,4,6-Triiodophenol (5-50 μM; 0-100 h) impairs the quality of pre-implantation mouse embryos in a dose-dependent manner, inducing decline of both total and trophectoderm cell numbers^[2].
 2,4,6-Triiodophenol (5 μM; 85 h) shows increasement of apoptotic cells in mouse pre-implantation embryos^[2].
 2,4,6-Triiodophenol (5-50 μM; 100 h) induces oxidative stress in mouse pre-implantation embryos^[2].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Apoptosis Analysis^[2]

Cell Line:	Mouse blastocyst cells
Concentration:	5 μM
Incubation Time:	85 hours
Result:	Showed signals of activated Caspase-3/7.

Immunofluorescence^[2]

Cell Line:	Mouse blastocyst cells
Concentration:	5-50 μ M
Incubation Time:	100 hours
Result:	Resulted in marked increase of oxygen species (ROS) treated with high dose of 2,4,6-Triiodophenol.

REFERENCES

- [1]. Liu S, et al. 2,4,6-triiodophenol exhibits embryotoxicity to pre-implantation mouse embryos in an in vitro exposure model. *Ecotoxicol Environ Saf.* 2022 Aug;241:113745.
- [2]. Trocóniz IF, et al. Dealing with time-dependent pharmacokinetics during the early clinical development of a new leukotriene B4 synthesis inhibitor. *Pharm Res.* 2006 Jul;23(7):1533-42.

Caution: Product has not been fully validated for medical applications. For research use only.

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