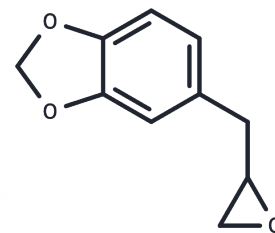


Safrole oxide

Chemical Properties

CAS No. :	7470-44-2
Formula:	C10H10O3
Molecular Weight:	178.18
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Safrole oxide was found to significantly inhibit neuronal cell growth and induce apoptosis. Safrole oxide elevated the levels of cyclooxygenase 2 (COX-2), interleukin-8 (IL-8) and reactive oxygen species (ROS), which was accompanied by nuclear factor-kappa B (NF-κB) nuclear translocation during the transdifferentiation, suggesting safrole oxide may induce endothelial cell transdifferentiation into functional neuron-like cells.
Targets(IC50)	COX

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.6123 mL	28.0615 mL	56.123 mL
5 mM	1.1225 mL	5.6123 mL	11.2246 mL
10 mM	0.5612 mL	2.8062 mL	5.6123 mL
50 mM	0.1122 mL	0.5612 mL	1.1225 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

Ge D, et al. Finding ATF4/p75NTR/IL-8 signal pathway in endothelial-mesenchymal transition by safrole oxide. PLoS One. 2014 Jun 6;9(6):e99378.

Su L, Zhang H, Zhao J, Zhang S, Zhang Y, Zhao B, Miao J. Safrole-2',3'-oxide induces atherosclerotic plaque vulnerability in apolipoprotein E-knockout mice. Toxicol Lett. 2013 Feb 27;217(2):129-36.

Zhao Y, et al. Safrole oxide induced neuronal differentiation of rat bone-marrow mesenchymal stem cells by elevating Hsp70. Gene. 2012 Nov 1;509(1):85-92.

Shen LC, et al. In vivo formation of N7-guanine DNA adduct by safrole 2',3'-oxide in mice. Toxicol Lett. 2012 Sep 18;213(3):309-15.

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