

Product Name: Isosafrole Revision Date: 01/10/2021

Product Data Sheet

Isosafrole

Cat. No.: A8703

CAS No.: 120-58-1 Formula: C10H10O2

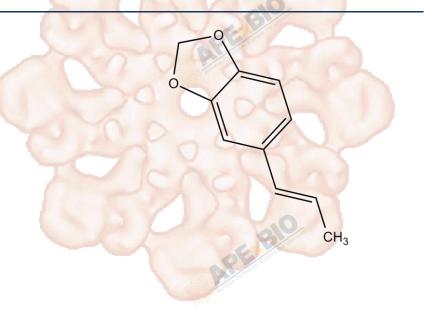
M.Wt: 162.19

Synonyms:

Target: Metabolism

Pathway: Dehydrogenase

Storage: Store at -20°C



Solvent & Solubility

insoluble in H2O; \geqslant 76.4 mg/mL in EtOH; \geqslant 8.8 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	6.1656 mL	30.8280 mL	61.6561 mL
	5 mM	1.2331 mL	6.1656 mL	12.3312 mL
	10 mM	0.6166 mL	3.0828 mL	6.1656 mL

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

Biological Activity

Shortsummary	A stiripentol analog, a pote	A stiripentol analog, a potent LDH inhibitor.		
IC ₅₀ & Target				
In Vitro	Cell Viability Assay			
	Preparation method:	The solubility of this compound in DMSO is >8.8mg/mL. General tips for		
		obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes		
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored		
		below -20°C for several months.		
	Reacting conditions:	500 μΜ		

	Applications:	Isosafrole strongly inhibited the pyruvate-to-lactate conversion by both LDH1		
		and LDH5, suggesting that it inhibited lactate production itself.		
	Animal experiment			
In Vivo	Animal models:	Kainate mice model		
	Dosage form:	100 to 300 mg/kg; intraperitoneal injection		
	Applications:	In the hippocampus of mice 2 weeks after the kainate injection, Isosafrole (200		
	PE	to 300 mg/kg) strongly suppressed spontaneous high-voltage spikes and		
	Tables of the	paroxysmal discharges. Isosafrole was an LDH inhibitor that suppressed		
		seizures in vivo.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
		slightly differ with the theoretical value. This is caused by an experimental		
		system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Sada N, Lee S2, Katsu T et al. Epilepsy treatment. Targeting LDH enzymes with a stiripentol analog to treat epilepsy. Science. 2015 Mar 20;347(6228):1362-7.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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