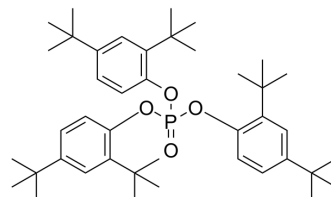


Tris(2,4-di-tert-butylphenyl)phosphate

Cat. No.:	HY-136177		
CAS No.:	95906-11-9		
Molecular Formula:	C ₄₂ H ₆₃ O ₄ P		
Molecular Weight:	662.92		
Target:	Phospholipase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

Ethanol : 50 mg/mL (75.42 mM; Need ultrasonic)
 Acetone : 25 mg/mL (37.71 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5085 mL	7.5424 mL	15.0848 mL
	5 mM	0.3017 mL	1.5085 mL	3.0170 mL
	10 mM	0.1508 mL	0.7542 mL	1.5085 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: 2.5 mg/mL (3.77 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (3.77 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% EtOH >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (3.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tris(2,4-di-tert-butylphenyl)phosphate is an active compound from the leaves of *Vitex negundo* L. shows anti-inflammatory activity with evidence of inhibition for secretory Phospholipase A₂ (sPLA₂) through molecular docking^[1].

IC₅₀ & Target

sPLA₂^[1]

In Vivo

Tris(2,4-di-tert-butylphenyl)phosphate (TDTBPP; 50 mg/kg and 70 mg/kg) exhibits significant anti-inflammatory activity in

carrageenan induced paw odema model^[1].

Tris(2,4-di-tert-butylphenyl)phosphate (50 mg/kg and 70 mg/kg) reduces the raw paw odema volume significantly^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Vinuchakkaravarthy T, et al. Active compound from the leaves of Vitex negundo L. shows anti-inflammatory activity with evidence of inhibition for secretory Phospholipase A(2) through molecular docking. Bioinformation. 2011;7(4):199-206.

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

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