



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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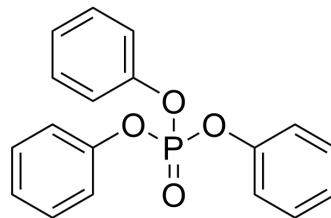
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## Triphenyl phosphate

<b>Cat. No.:</b>	HY-Y1322
<b>CAS No.:</b>	115-86-6
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>15</sub> O <sub>4</sub> P
<b>Molecular Weight:</b>	326.28
<b>Target:</b>	Monoamine Oxidase; Reactive Oxygen Species; NF-κB; Interleukin Related; TNF Receptor
<b>Pathway:</b>	Neuronal Signaling; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Apoptosis
<b>Storage:</b>	Store at room temperature 3 years In solvent -80°C 2 years -20°C 1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (306.49 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	3.0649 mL	15.3243 mL	30.6485 mL
		5 mM	0.6130 mL	3.0649 mL	6.1297 mL
		10 mM	0.3065 mL	1.5324 mL	3.0649 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (15.32 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (15.32 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Triphenyl phosphate is an organic phosphate flame retardant. Triphenyl phosphate can disrupt placental tryptophan metabolism by activating MAOA/ROS/NFκB, leading to abnormal neurological behavior. Triphenyl phosphate promotes oxidative stress by inducing inflammatory factors like nuclear factor kappa B (NFκB), interleukin-6, and tumor necrosis factor α. Triphenyl phosphate can also cause allergic contact dermatitis <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IL-6

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## REFERENCES

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- [1]. Xiaoxun Lu, et al. Triphenyl phosphate disrupts placental tryptophan metabolism by activating MAOA/ROS/NFκB. *Sci Total Environ.* 2023 Dec 15;904:166688.
- [2]. J G Camarasa, et al. Allergic contact dermatitis from triphenyl phosphate. *Contact Dermatitis.* 1992 Apr;26(4):264-5.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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