

Triphenyl phosphate

Chemical Properties

CAS No. :	115-86-6
Formula:	C ₁₈ H ₁₅ O ₄ P
Molecular Weight:	326.288
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Triphenyl phosphate is an organophosphorus flame retardant and endocrine disruptor that activates MAO-A/ROS/NF-κB pathways, disrupting placental tryptophan metabolism and inducing abnormal neurobehavioral effects. It also promotes oxidative stress via inflammatory mediators including NF-κB, IL-6, and TNF-α.
Targets(IC50)	MAO,NF-κB,IL Receptor,ROS,TNF

Solubility Information

Solubility	DMSO: 80 mg/mL (245.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0648 mL	15.3238 mL	30.6476 mL
5 mM	0.613 mL	3.0648 mL	6.1295 mL
10 mM	0.3065 mL	1.5324 mL	3.0648 mL
50 mM	0.0613 mL	0.3065 mL	0.613 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

- Xiaoxun Lu, et al. Triphenyl phosphate disrupts placental tryptophan metabolism by activating MAOA/ROS/NFκB. *Sci Total Environ.* 2023 Dec 15:904:166688.
- J G Camarasa, et al. Allergic contact dermatitis from triphenyl phosphate. *Contact Dermatitis.* 1992 Apr;26(4):264-5.

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