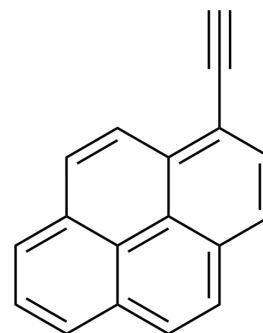


1-Ethynylpyrene

Cat. No.:	HY-131452		
CAS No.:	34993-56-1		
Molecular Formula:	C ₁₈ H ₁₀		
Molecular Weight:	226.27		
Target:	Cytochrome P450		
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	DMSO : 9.09 mg/mL (40.17 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.4195 mL	22.0975 mL	44.1950 mL
		5 mM	0.8839 mL	4.4195 mL	8.8390 mL
10 mM		0.4419 mL	2.2097 mL	4.4195 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.91 mg/mL (4.02 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 0.91 mg/mL (4.02 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	1-Ethynylpyrene is an aryl acetylenic inhibitor of cytochromes P450 1A1, 1A2, and 2B1 with IC ₅₀ s of 0.18, 0.32, and 0.04 μM, respectively ^[1] . 1-Ethynylpyrene is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vitro	1-Ethynylpyrene exhibits activity against P450 1A2, and 2B1 with K _i s of 0.32 and 0.04 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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