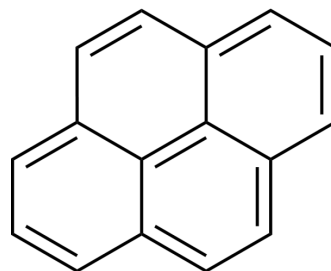


## Pyrene

Cat. No.:	HY-103609
CAS No.:	129-00-0
Molecular Formula:	C <sub>16</sub> H <sub>10</sub>
Molecular Weight:	202.25
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light
	In solvent -80°C 2 years
	-20°C 1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (123.61 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.9444 mL	24.7219 mL	49.4438 mL
	5 mM	0.9889 mL	4.9444 mL	9.8888 mL
	10 mM	0.4944 mL	2.4722 mL	4.9444 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Pyrene is a polycyclic aromatic hydrocarbon (PAH) composed of four fused benzene rings. It has a distinct aromatic odor, produced by incomplete combustion of organic matter. Pyrene exhibits strong fluorescence, emitting in the blue region of the spectrum, making it useful as a probe for studying molecular interactions in solution and on surfaces. Pyrene is also used as a model compound for the study of PAHs in various environments and biological systems because of its ubiquity in these environments. However, long-term exposure to pyrene has been associated with potential health risks, including carcinogenicity and mutagenicity.

#### In Vitro

Pyrene is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

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

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

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