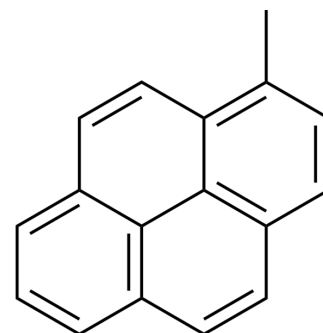


1-Methylpyrene

Cat. No.: HY-W271064
CAS No.: 2381-21-7
Molecular Formula: C₁₇H₁₂
Molecular Weight: 216.28
Target: Fluorescent Dye
Pathway: Others
Storage: 4°C, protect from light
 * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.35 mg/mL (20.11 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.6236 mL	23.1182 mL	46.2364 mL
	5 mM		0.9247 mL	4.6236 mL	9.2473 mL
	10 mM		0.4624 mL	2.3118 mL	4.6236 mL

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

BIOLOGICAL ACTIVITY

Description

1-Methylpyrene is a ubiquitous environmental pollutant and rodent carcinogen. Its mutagenic activity depends on sequential activation by various CYP and sulfotransferase (SULT) enzymes. 1-Methylpyrene induces chromosome loss and mitotic disturbance, proba

REFERENCES

- [1]. Monien BH, et al. Time course of hepatic 1-methylpyrene DNA adducts in rats determined by isotope dilution LC-MS/MS and 32P-postlabeling. Chem Res Toxicol. 2008 Oct;21(10):2017-25.
- [2]. Hang Yu, et al. 1-Methylpyrene induces chromosome loss and mitotic apparatus damage in a Chinese hamster V79-derived cell line expressing both human CYP1A2 and sulfotransferase 1A1. Chem Biol Interact. 2020 Dec 1;332:109283.

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

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