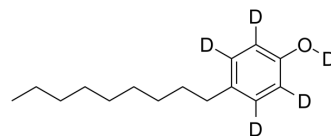


## 4-Nonylphenol-d<sub>5</sub>

<b>Cat. No.:</b>	HY-131122S		
<b>CAS No.:</b>	358730-95-7		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>19</sub> D <sub>5</sub> O		
<b>Molecular Weight:</b>	225.38		
<b>Target:</b>	Estrogen Receptor/ERR		
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (443.70 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	4.4370 mL	22.1848 mL	44.3695 mL
		5 mM	0.8874 mL	4.4370 mL	8.8739 mL
10 mM		0.4437 mL	2.2185 mL	4.4370 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: ≥ 2.5 mg/mL (11.09 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.09 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	4-Nonylphenol-d <sub>5</sub> is the deuterium labeled 4-Nonylphenol. 4-Nonylphenol, a major degradation product of Nonylphenol ethoxylates (NPEOs), is a persistent organic pollutant with endocrine-disrupting properties and exerts estrogenic activity[1].
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### REFERENCES

[1]. Lyons R, Togashi T, Bowyer C. Environmental conditions affecting re-release from particulate matter of 4-Nonylphenol into an aqueous medium. Environ Toxicol Chem. 2019;38(2):350-360.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA