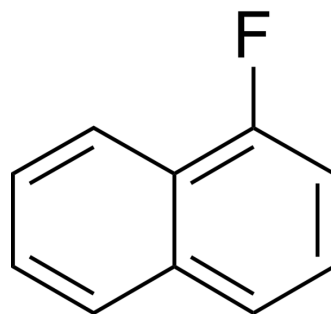


## 1-Fluoronaphthalene

<b>Cat. No.:</b>	HY-32126		
<b>CAS No.:</b>	321-38-0		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>7</sub> F		
<b>Molecular Weight:</b>	146.16		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (684.18 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
<b>1 mM</b>	6.8418 mL	34.2091 mL	68.4182 mL
<b>5 mM</b>	1.3684 mL	6.8418 mL	13.6836 mL
<b>10 mM</b>	0.6842 mL	3.4209 mL	6.8418 mL

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

### BIOLOGICAL ACTIVITY

#### Description

1-Fluoronaphthalene is an organofluorine compound derived from naphthalene derivatives and fluorinated aromatics. 1-Fluoronaphthalene can be used to synthesize LY248686, a potent inhibitor of serotonin and noradrenaline uptake<sup>[1]</sup>.

#### In Vitro

1-Fluoronaphthalene (3 mg, 24 h) can be oxidized by *C.elegans* ATCC 36112 to form trans-3,4-dihydroxy-3,4-dihydro-1-fluoronaphthalene and trans-5,6-dihydroxy-5,6-dihydro-1-fluoronaphthalene and to form 1-fluoro-8-hydroxy-5-tetralone, 5-hydroxy-1-fluoronaphthalene and 4-hydroxy-1-fluoronaphthalene as well as glucosides, sulfates and glucuronide conjugates of these phenols<sup>[1]</sup>.

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

### REFERENCES

[1]. C E Cerniglia, et al. Effects of a fluoro substituent on the fungal metabolism of 1-fluoronaphthalene. Appl Environ Microbiol. 1984 Aug;48(2):294-300.

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

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