# Menadiol

**Cat. No.:** HY-W128525

**CAS No.:** 481-85-6

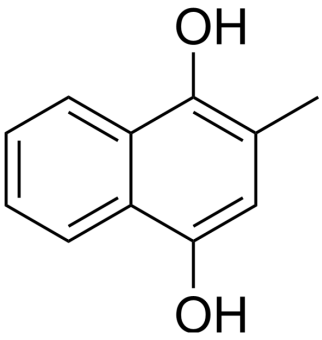
**Molecular Formula:** $C_{11}H_{10}O_2$

**Molecular Weight:** 174.2

**Target:** Mitochondrial Metabolism; Oxidative Phosphorylation

**Pathway:** Metabolic Enzyme/Protease

**Storage:** 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)




## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 100 mg/mL (574.05 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 5.7405 mL | 28.7026 mL | 57.4053 mL |
| | 5 mM | 1.1481 mL | 5.7405 mL | 11.4811 mL |
| | 10 mM | 0.5741 mL | 2.8703 mL | 5.7405 mL |

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

## BIOLOGICAL ACTIVITY

**Description**

Menadiol (Dihydrovitamin K3), a menaquinol analogue, is an electron donor for reversed oxidative phosphorylation in submitochondrial particles[1].

## REFERENCES

[1]. Zhao Z, et al. Effects of site-directed mutations on heme reduction in Escherichia coli nitrate reductase A by menaquinol: a stopped-flow study. Biochemistry. 2003;42(48):14225-14233.

[2]. Taggart WV, et al. Menadiol as an electron donor for reversed oxidative phosphorylation in submitochondrial particles. Biochim Biophys Acta. 1972;267(3):439-443.

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

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