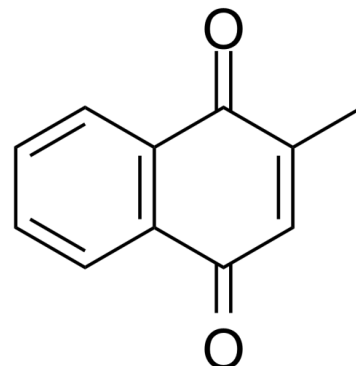


## Data Sheet

<b>Product Name:</b>	Menadione
<b>Cat. No.:</b>	CS-2374
<b>CAS No.:</b>	58-27-5
<b>Molecular Formula:</b>	C <sub>11</sub> H <sub>8</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	172.18
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	DMSO : 50 mg/mL (290.39 mM; Need ultrasonic); H <sub>2</sub> O : < 0.1 mg/mL (insoluble)



### BIOLOGICAL ACTIVITY:

Menadione, a synthetic naphthoquinone, can be converted to active vitamin K<sub>2</sub> in vivo. Target: Others Menadione (Vitamin K<sub>3</sub>) is a synthetic analogue of 1,4-naphthoquinone with a methyl group in the 2-position. Menadione is used as a phosphatase inhibitor and an inhibitor of mitochondrial DNA polymerase  $\gamma$  (pol  $\gamma$ ). Menadione can be used as an oxidative injury (free radical generator) inducing agent [1].

### References:

[1]. <http://en.wikipedia.org/wiki/Menadione>

### CAIndexNames:

1,4-Naphthalenedione, 2-methyl-

### SMILES:

O=C1C(C)=CC(C2=CC=CC=C2)=O

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

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