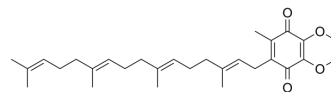


## Coenzyme Q4

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-134003   |
| <b>CAS No.:</b>           | 4370-62-1   |
| <b>Molecular Formula:</b> | C <sub>29</sub> H <sub>42</sub> O <sub>4</sub>                                      |
| <b>Molecular Weight:</b>  | 454.64  |
| <b>Target:</b>            | Others; Endogenous Metabolite   |
| <b>Pathway:</b>           | Others; Metabolic Enzyme/Protease   |
| <b>Storage:</b>           | Pure form    -20°C    3 years<br>In solvent   -80°C    6 months<br>-20°C    1 month |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (22.00 mM; Need ultrasonic and warming)

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 2.1995 mL | 10.9977 mL | 21.9954 mL |
|                           | 5 mM    | 0.4399 mL | 2.1995 mL  | 4.3991 mL  |
|                           | 10 mM   | 0.2200 mL | 1.0998 mL  | 2.1995 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

Coenzyme Q4 is an analog and functional substitute of Coenzyme Q10 (CoQ10) which can be targeted to the mitochondria. Coenzyme Q4 has antioxidant activity<sup>[1]</sup>.

### REFERENCES

[1]. Cerqua C, et al. Vitamin K2 cannot substitute Coenzyme Q10 as electron carrier in the mitochondrial respiratory chain of mammalian cells. Sci Rep. 2019 Apr 25;9(1):6553.

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

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