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# **DATASHEET**

**DMNQ** 

#### **Product overview**

 Name
 DMNQ

 Cat No
 HB3876

 Purity
 >99%

**Description** Cell-permeable, redox cycling quinone. Induces ROS generation.

## **Biological Data**

**Biological description** 

Cell permeable, non-alkylating, non-thiol, adduct-forming, redox cycling quinone. Intracellular superoxide anion formation/ROS generation inducer. Anticancer agent. Shown to induce cell proliferation, apoptosis, necrosis and necroptosis in vitro, dependent on concentration, time, temperature and cell type. Valuable tool for the generation of reactive oxygen species (ROS) in order to study the role of ROS in cell toxicity, apoptosis and necrosis. Useful as reference compound in characterizing the effects of oxidative stress. Can be used to eliminate any mechanistic ambiguity involving redox cycling quinoids as the source of reactive oxidant species/oxidative stress in biological studies.

### **Solubility & Handling**

Storage instructions

**Important** 

+4°C

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### **Chemical Data**

Chemical name Molecular Weight Chemical structure 2,3-Dimethoxy-1,4-naphthoquinone

218.2

OCH<sub>3</sub>

CAS Number PubChem identifier

SMILES InChiKey Appearance 6956-96-3

COC1=C(OC)C(=O)c2cccc2C1=O ZEGDFCCYTFPECB-UHFFFAOYSA-N

Yellow crystalline solid