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DATASHEET

DMNQ

Product overview

Name	DMNQ
Cat No	HB3876
Purity	>99%
Description	Cell-permeable, redox cycling quinone. Induces ROS generation.

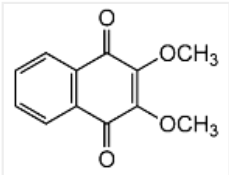
Biological Data

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.
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Solubility & Handling

Storage instructions	+4 °C
Important	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	2,3-Dimethoxy-1,4-naphthoquinone
Molecular Weight	218.2
Chemical structure	
CAS Number	6956-96-3
PubChem identifier	0
SMILES	<chem>COC1=C(OC)C(=O)c2ccccc2C1=O</chem>
InChiKey	ZEGDFCCYTFPECB-UHFFFAOYSA-N
Appearance	Yellow crystalline solid