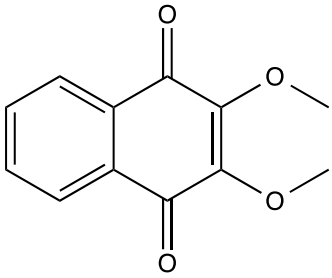
Catalog # 10-4523

DMNQ

2,3-Dimethoxy-1,4-naphthoquinone

CAS# 6956-96-3

Lot # FBM3026



DMNQ is a non-alkylating redox cycling quinone. A useful tool for studying reactive oxidant species and oxidative stress. Cellular effects are dependent on concentration and cell type

1) Gant *et al*. (1988) *Redox Cycling and Sulphydryl Arylation; Their Relative Importance in the Mechanism of Quinone Cytotoxicity to Isolated Hepatocytes Chem.-Biol. Interactions* **65** 157
2) Stubberfield and Cohen (1989) *Interconversion of NAD(H) to NADP(H). A cellular response to quinone-induced oxidative stress in isolated hepatocytes Biochem.Pharmacol*. **38** 2631
3) Dypbukt *et al* (1994*) Different prooxidant levels stimulate growth, trigger apoptosis or produce necreosis of insulin-secreting RINm5F cells. The role of intracellular polyamines*. J.Biol.Chem. **269** 30553.
4) Henry and Wallace (1996) *Differential mechanisms of cell killing by redox cycling and arylating quinones Arch.Toxicol.* **70** 482

PHYSICAL DATA

Molecular Weight:	218.21
Molecular Formula:	$C_{12}H_{10}O_4$
Purity:	99% (TLC: 20% Ethyl acetate/hexanes; Rf = 0.42) NMR: Conforms
Solubility:	DMSO(25 mg/mL); Ethanol(5 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20ºC for up to one year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months .

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