DMNQ

Inducer of intracellular ROS generation

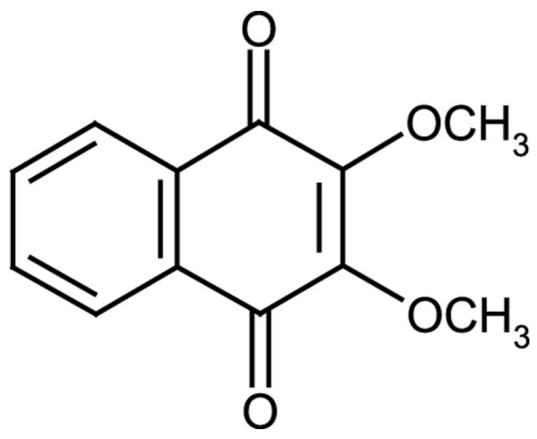
Redox-cycling agent that induces intracellular superoxide anion formation and, depending on the concentration, induces cell proliferation, apoptosis or necrosis. DMNQ does not react with free thiol groups, is non-alkylating and adduct-forming in contrast to other quinones. Thus, DMNQ is a valuable tool for the generation of reactive oxygen species (ROS) in order to study the role of ROS in cell toxicity, apoptosis and necrosis.

Citations: 9 View Online »

Ordering Information Order Online »

ALX-420-027-M005	5mg
ALX-420-027-M010	10mg

Manuals, SDS & CofA View Online »

 O OCH3 OCH3 O	

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	2,3-Dimethoxy-1,4-naphthoquinone
Appearance	Yellow crystalline solid.
CAS	6956-96-3
Couple Target	ROS
Couple Type	Activator
Formula	$C_{12}H_{10}O_4$
Identity	Determined by NMR.
MW	218.2
Purity	≥99% (TLC)
Solubility	Soluble in acetone, DMSO or methanol.

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