## Decylubiquinone

Cat. No.:	HY-121134	
CAS No.:	55486-00-5	
Molecular Formula:	C <sub>19</sub> H <sub>30</sub> O <sub>4</sub>	
Molecular Weight:	322.44	
Target:	Reactive Oxygen Species	
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB	
Storage:	Solution, -20°C, 2 years	

Description	Decylubiquinone is an a production in response	malog of ubiquinone (coenzyme $Q_{10}$ ). Decylubiquinone blocks reactive oxygen species (ROS) to glutathione depletion and inhibits activation of the mitochondrial permeability transition <sup>[1]</sup> .
In Vitro	Decylubiquinone (dUb; 10 µm for 6 hours) exerts its effects on ROS by either inhibition of ROS production by cytochrome bc2 or that it scavenged ROS produced <sup>[1]</sup> . Decylubiquinone inhibits both the dichlorofluorescein (DCF) fluorescence increase resulting from H <sub>2</sub> O <sub>2</sub> treatment and the DCF fluorescence increase resulting after glutathione (GSH) depletion using diethylmaleate mitochondrially generated ROS) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>	
	Cell Line: Concentration: Incubation Time: Result:	HL60 cells transfected with bcl-2 (bcl-2) (HL60 B cells) 10 μM 6 hours Attenuated the ROS increase in HL60 (B) cells.

## REFERENCES

[1]. Jeffrey S Armstrong, et al. The Coenzyme Q10 analog decylubiquinone inhibits the redox-activated mitochondrial permeability transition: role of mitochondrial [correction mitochondrial] complex III. J Biol Chem. 2003 Dec 5;278(49):49079-84.

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

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**Product** Data Sheet