Decylubiquinone

MPTP inhibitor

Decylubiquinone is an analogue of ubiquinone. Decylubiquinone inhibits the Ca^{2+}-dependent mitochondrial permeability transition pore (MPTP) without inhibiting respiration. Maximum effect on Ca^{2+} retention capacity of rat liver mitochondria can be achieved with decylubiquinone at 100µM. This inhibitory effect of decylubiquinone on MPTP can be counteracted by ubiquinone-5 (Prod. No. ALX-270-294). Decylubiquinone also inhibits etoposide-induced apoptosis in in L929 cells at 5µM.

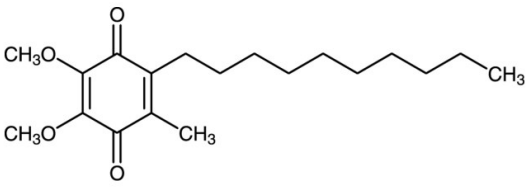
Citations: 7 View Online »

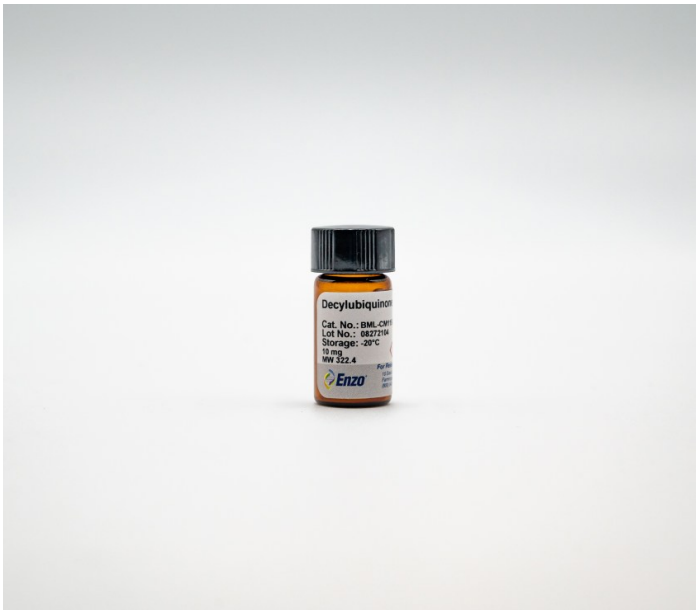
Ordering Information Order Online »

BML-CM115-0010	10mg
BML-CM115-0050	50mg

Manuals, SDS & CofA View Online »

- MPTP inhibitor used in cellular metabolism studies


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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored, as supplied, at -20°C. Stock solutions are stable for up to 3 months at -20°C.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	2,3-Dimethoxy-5-methyl-6-decyl-1,4-benzoquinone
Appearance	Neat yellow to orange colored oil.
CAS	55486-00-5
Couple Target	MPTP
Couple Type	Inhibitor
Formula	$C_{19}H_{30}O_4$
MW	322.4
Purity	≥97% (HPLC)
Solubility	Soluble in DMSO (10mg/ml).

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