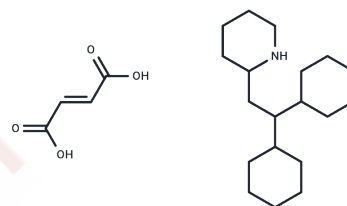


## Perhexiline maleate

## Chemical Properties

CAS No. :	6724-53-4
Formula:	C <sub>23</sub> H <sub>39</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	393.56
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Perhexiline maleate is an orally active inhibitor of CPT1 and CPT2, reducing fatty acid metabolism, with IC <sub>50</sub> values of 77 μM and 148 μM against rat heart and liver CPT1, respectively.
Targets(IC <sub>50</sub> )	Apoptosis, Mitochondrial Metabolism
In vitro	Perhexiline treatment increases the susceptibility of NB cells to antineoplastic treatments. Co-administration of Perhexiline maleate potentiates the efficacy of cisplatin to reduce the in vitro clonogenic potential of NB cells[2].
In vivo	The co-administration of Perhexiline and cisplatin yields a clear enhancement of antitumor effects, resulting in a significantly improved progression-free survival as compared with mice treated with DMSO.

## Solubility Information

Solubility	DMSO: 27.5 mg/mL (69.87 mM), Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5409 mL	12.7045 mL	25.4091 mL
5 mM	0.5082 mL	2.5409 mL	5.0818 mL
10 mM	0.2541 mL	1.2705 mL	2.5409 mL
50 mM	0.0508 mL	0.2541 mL	0.5082 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Kennedy JA, et al. Inhibition of carnitine palmitoyltransferase-1 in rat heart and liver by Perhexiline and amiodarone. *Biochem Pharmacol.* 1996 Jul 26;52(2):273-80.

Vella S, et al. Perhexiline maleate enhances antitumor efficacy of cisplatin in neuroblastoma by inducing over-expression of NDM29 ncRNA. *Sci Rep.* 2015 Dec 17;5:18144.

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