



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Miltirone

Chemical Properties

CAS No. : 27210-57-7

Formula: C₁₉H₂₂O₂

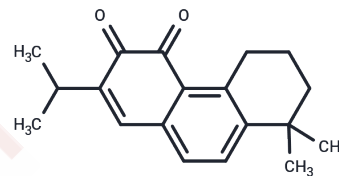
Molecular Weight: 282.38

Appearance: no data available

Storage:

store at low temperature, keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Miltirone is a CYPs inhibitor, it has been characterized as a low-affinity ligand for central benzodiazepine receptors.
Targets(IC ₅₀)	Cytochromes P450, GABA Receptor
In vitro	Miltirone inhibited multidrug-resistant P-glycoprotein (P-gp)-overexpressing CEM/ADR5000 cells better than drug-sensitive CCRF-CEM wild-type cells, a phenomenon termed collateral sensitivity. Flow cytometric analyses revealed that Miltirone induced G2/M arrest and apoptosis. Furthermore, Miltirone stimulated reactive oxygen species (ROS) generation and mitochondrial membrane potential (MMP) disruption, which in turn induced DNA damage and activation of caspases and poly ADP-ribose polymerase (PARP). Downregulation of CCNB1 (cyclin B1) and CDC2 mRNA and upregulation of CDKN1A (p21) mRNA were in accord with Miltirone-induced G2/M arrest. Moreover, Miltirone decreased cell adherence to fibronectin. Molecular docking revealed that Miltirone bound to the ATP-binding site of IKK-β[1]

Solubility Information

Solubility	DMSO: 25 mg/mL (88.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5413 mL	17.7066 mL	35.4133 mL
5 mM	0.7083 mL	3.5413 mL	7.0827 mL
10 mM	0.3541 mL	1.7707 mL	3.5413 mL
50 mM	0.0708 mL	0.3541 mL	0.7083 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.

Reference

Miltirone Induces G2/M Cell Cycle Arrest and Apoptosis in CCRF-CEM Acute Lymphoblastic Leukemia Cells. J Nat Prod. 2015 Jun 26;78(6):1339-47.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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