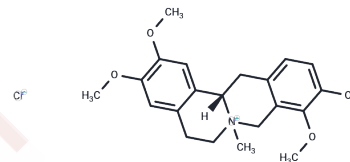


## N-Methylcorydalmine

## Chemical Properties

CAS No. :	81010-29-9
Formula:	C <sub>21</sub> H <sub>26</sub> ClNO <sub>4</sub>
Molecular Weight:	391.89
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	N-Methylcorydalmine may exhibit significant anti-hypoxia activity.
In vitro	<b>METHODS AND RESULTS:</b> To study the chemical constituents from the rhizome of <i>Menispermum dauricum</i> , fifteen compounds, N-Methylcorydalmine(1), thalifoline(2), stepholidine(3), acutumine(4), daurisoline(5), acutumidine(6), dauricoline(7), bianfugecine(8), 6-O-demethylmenisporphine(9), bianfugedine(10), dauricoside(11), eleutheroside D(12), aristolactone(13), aristoloterpenate I (14) and aristolochic acid(15) were isolated from 75% ethanol extract of <i>Menispermum Rhizoma</i> by using thin layer chromatography and column chromatography methods. Their structures were identified based on their physicochemical properties and spectral data. Among them, compounds 12-15 were obtained from the genus <i>Menispermum</i> for the first time. Six alkaloids with higher contents were subjected to evaluate the anti-hypoxic activities by using MTT method. <b>CONCLUSIONS:</b> As a result, six alkaloids exhibited significant anti-hypoxia activities.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5517 mL	12.7587 mL	25.5174 mL
5 mM	0.5103 mL	2.5517 mL	5.1035 mL
10 mM	0.2552 mL	1.2759 mL	2.5517 mL
50 mM	0.051 mL	0.2552 mL	0.5103 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

Chemical constituents from rhizome of Menispermum dauricum and their anti-hypoxic activities. Zhongguo Zhong Yao Za Zhi. 2019 Feb;44(4):723-729.

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