

A synthetic derivative, 9-methyl- $\beta$ -carboline, has shown neuroprotective effects including increased expression of neurotrophic factors and enhanced respiratory chain activity. [10] [11] This derivative has also been shown to enhance cognitive function, [12] increase dopaminergic neuron count and facilitate synaptic and dendritic proliferation.



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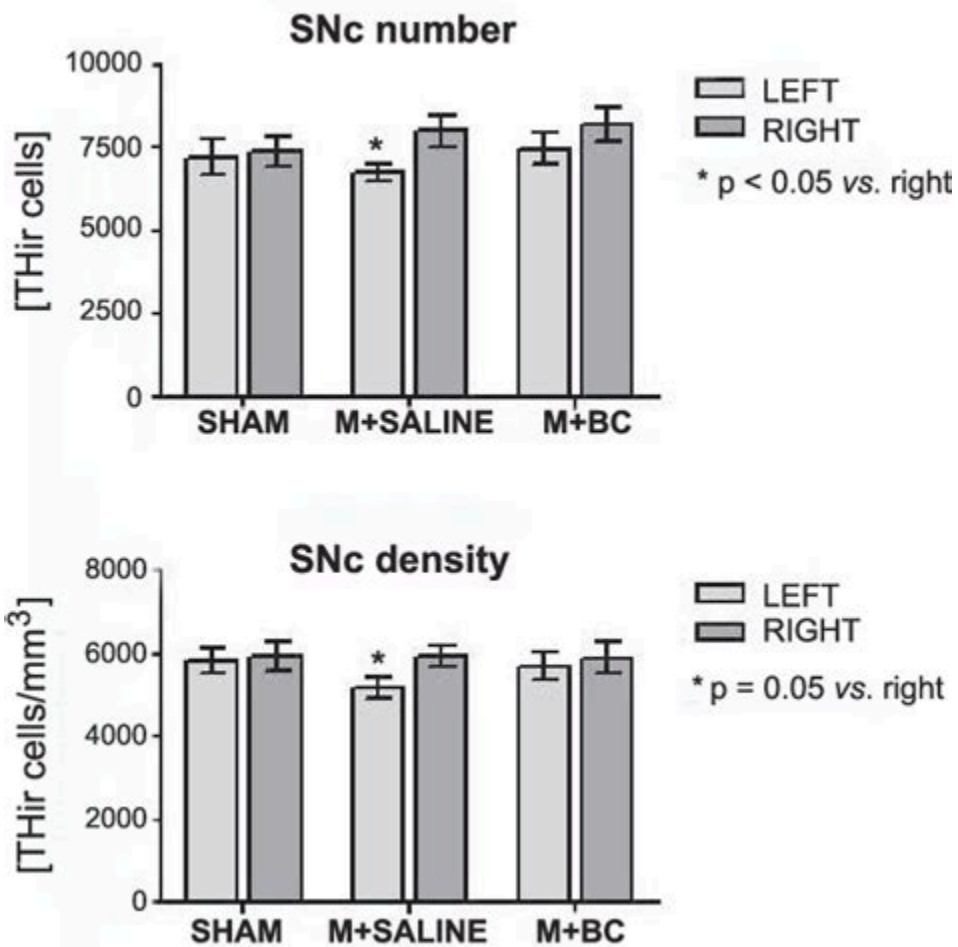
## 9-Methyl-β-carboline-induced cognitive enhancement is . - PubMed

er investigations revealed that 9-me-  
 reased the proliferation of astrocytes  
 being toxic to the cells. On the con-  
 decreased the release of lactate dehy-  
 se, implying an increased vitality  
 ET AL. MANUSCRIPT IN PREPARATION].  
 ly, 9-me-BC exerted unusual effects  
 nuclein. The gene expression of  
 lein was increased while the prol-  
 el was decreased by 50% [22]. Post-  
 tional modifications of the mRNA  
 reased turnover rate or secretion of  
 lein into the culture medium may  
 t for this observation. The physi-  
 functions of α-synuclein are still  
 iently known but include, together  
 ynsaturated fatty acids, promo-  
 clathrin-mediated endocytosis and  
 vesicle recycling [119]; modula-  
 the density of DAT in the synap-  
 , thereby controlling the entry of  
 ine into dopaminergic neurons [120];  
 one-like regulation of TH activ-  
 [22]; and protection of dopaminer-  
 9D cells from MPP<sup>+</sup> and rotenone  
 [123]. On the other hand, overex-  
 s of α-synuclein leads to transcrip-  
 ysfuction [124], inflammation [125]  
 ll death [126]. There is an ongoing  
 regarding the role of α-synuclein  
 legenerative process of dopaminer-  
 rons and it is questionable whether  
 acellular concentration should be  
 ilated. Lewy bodies – the deposits  
 gated α-synuclein – might initially  
 protect the cellular milieu from the  
 ted form, but could eventually turn  
 d impair the physiological balance  
 dopaminergic neuron. Therefore



9-me-BC (9-methyl-β-carboline) is a part of the β-Carboline family of pyridoindoles, synthesized from tryptophan or tryptophan-like indoleamines. 1

## 9-Methyl-beta-carboline has restorative effects in an animal model of .



9-Methyl-beta-carboline (9-me-BC) is a research chemical that has shown potential for enhancing cognitive function. It's still relatively new on the market, but early studies suggest it could be a powerful tool in your arsenal for boosting productivity and mental performance.

## 9-Me-BC | Buy High-Quality 9-Me-BC Powder - 500mg | Chemyo



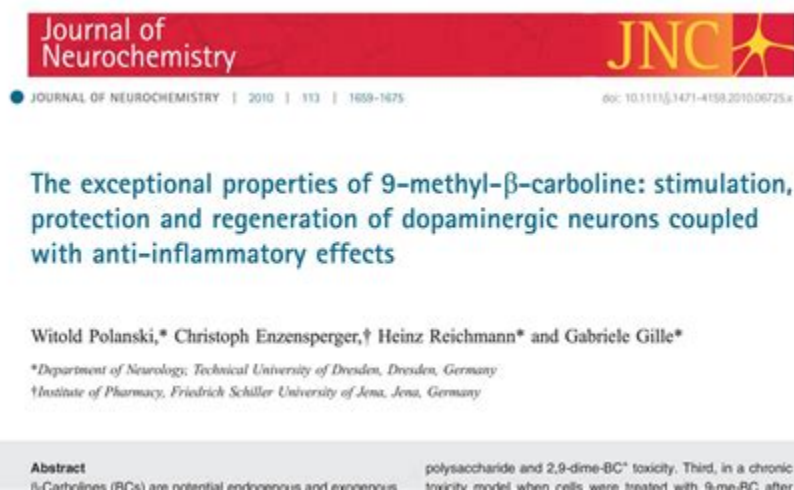
Increased beta-carboline 9N-methyltransferase activity in the frontal cortex in Parkinson's disease. Neurobiol. Dis. (2000) . N-Methyl- $\beta$ -carboline ( $\beta$ C) alkaloids, including normelinone F (1b) and melinone F (2b), have been found in a vast range of living species playing different biological, biomedical and/or pharmacological roles .

## 9-Me-BC - Health benefits, side effects, how to use, and more!



Recently, 9-methyl- $\beta$ -carboline (9-me-BC) was identified as a BC with unexpected stimulatory effects on dopaminergic neurons (Hamann et al. 2008). It was transported via the DAT and increased the number of tyrosine hydroxylase (TH) positive cells by approximately 20%, whereas the total cell number remained unchanged.

## The exceptional properties of 9-methyl-beta-carboline: stimulation .



9-Methyl-beta-carboline up-regulates the appearance of differentiated dopaminergic neurones in primary mesencephalic culture 9-Methyl-beta-carboline up-regulates the appearance of differentiated dopaminergic neurones in primary mesencephalic culture Mar-Apr 2008;52 (4-5):688-700. doi: 10.1016/j.neuint.2007.08.018. Epub 2007 Sep 4.

## 9-Methyl- $\beta$ -carboline-induced cognitive enhancement is associated with .

Journal of Neurochemistry **JNC**

JOURNAL OF NEUROCHEMISTRY | 2012 | 121 | 924-931 doi: 10.1111/j.1471-4159.2012.07713.x

ORIGINAL ARTICLE

★

### 9-Methyl- $\beta$ -carboline-induced cognitive enhancement is associated with elevated hippocampal dopamine levels and dendritic and synaptic proliferation

Michael Gruss,<sup>\*,1</sup> Dorothea Appenroth,<sup>†,1</sup> Armin Flubacher,<sup>\*,¶,1</sup> Christoph Enzensperger,<sup>‡</sup> Jörg Bock,<sup>\*,\*\*\*</sup> Christian Fleck,<sup>†</sup> Gabriele Gille,<sup>§,1</sup> and Katharina Braun<sup>\*,\*\*,-1</sup>

<sup>\*</sup>Otto von Guericke University Magdeburg, Institute of Biology, Magdeburg, Germany  
<sup>†</sup>Friedrich Schiller University of Jena, Institute of Pharmacology and Toxicology, Jena, Germany  
<sup>‡</sup>Friedrich Schiller University of Jena, Institute of Pharmacy, Jena, Germany  
<sup>§</sup>Technical University of Dresden, Department of Neurology, Dresden, Germany  
<sup>¶</sup>German Center for Neurodegenerative Diseases (DZNE), Magdeburg, Germany  
<sup>\*\*</sup>Center for Behavioral Brain Sciences, Magdeburg, Germany

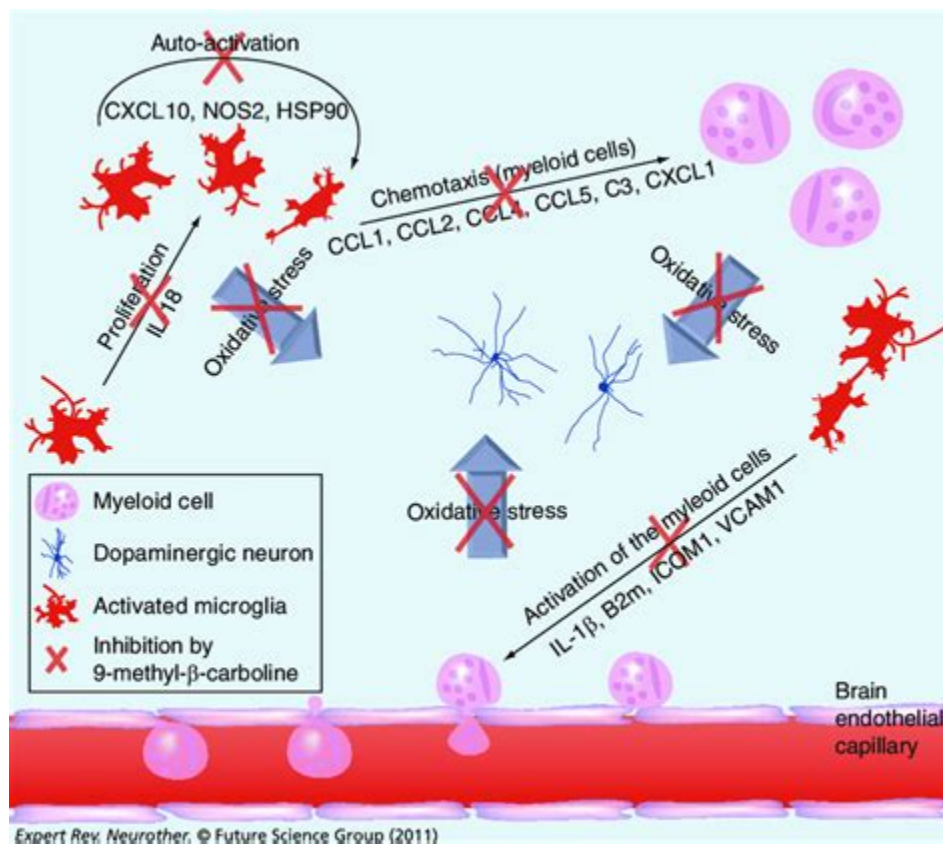
**Abstract**  
 $\beta$ -Carbolines (BCs) belong to the heterogeneous family of carbolines, which have been found exogenously, that is, in various fruits, meats, tobacco smoke, alcohol and coffee, but also endogenously, that is, blood, brain and CSF. These exogenous and endogenous BCs and some of their metabolites can exert neurotoxic effects, however, an unexpected stimulatory effect of 9-methyl- $\beta$ -carboline (9-me-BC) on dopaminergic neurons in primary mesencephalic cultures was recently discovered. The aim of the present study was to extend our knowledge on the stimulatory effects of 9-me-BC and to test the hypothesis that 9-me-BC may act as a cognitive enhancer. We found that 10 days (but not 5 days) of pharmacological treatment with 9-me-BC (i) improves spatial learning in the radial maze, (ii) elevates dopamine levels in the hippocampal formation, and (iii) results after 10 days of treatment in elongated, more complex dendritic trees and higher spine numbers on granule neurons in the dentate gyrus of 9-me-BC-treated rats. Our results demonstrate that beyond its neuroprotective/neurorestorative and anti-inflammatory effects, 9-me-BC acts as a cognitive enhancer in a hippocampus-dependent task, and that the behavioral effects may be associated with a stimulatory impact on hippocampal dopamine levels and dendritic and synaptic proliferation.

**Keywords:** dendritic plasticity, HPLC, spatial learning, synaptic plasticity.  
*J. Neurochem.* (2012) **121**, 924–931.

Read the Editorial Highlight for this article on page 841.

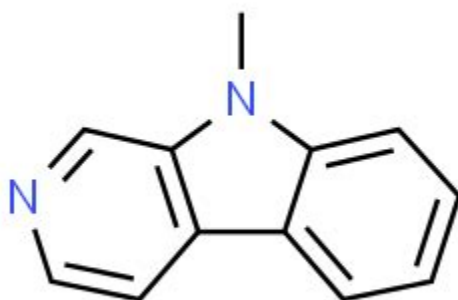
9-Methyl- $\beta$ -carboline inhibits monoamine oxidase activity and stimulates the expression of neurotrophic factors by astrocytes - PMC Journal List Springer Open Choice PMC8592951 As a library, NLM provides access to scientific literature.

## 9-Methyl- $\beta$ -carboline up-regulates the appearance of differentiated .



This suggests that 9-methyl- $\beta$ -carboline acts as a cognitive enhancer in a hippocampus-dependent task and that the behavioral effects may be associated with a stimulatory impact on hippocampal dopamine levels and dendritic and . Beta-carbolines and convulsant benzodiazepine Ro 5-3663 Methods of Generation. Among beta-carbolines (Collins and .

## 9-Methyl-beta-carboline up-regulates the appearance of differentiated .

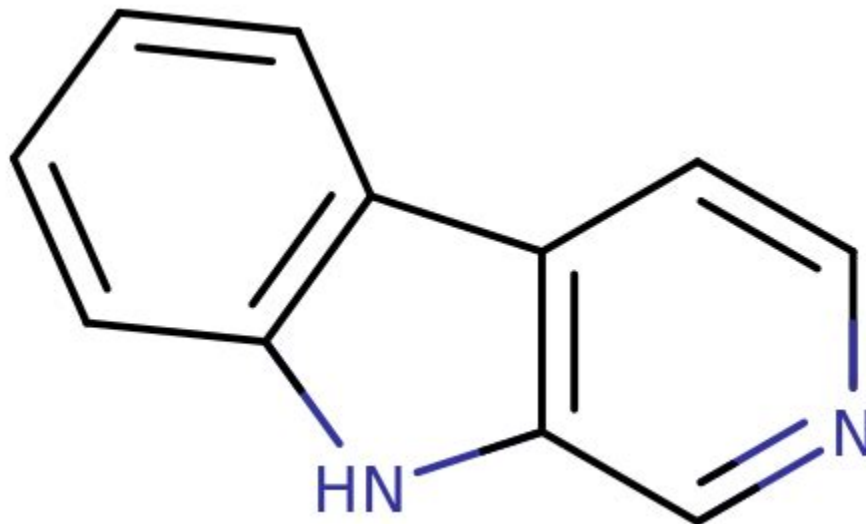


Interestingly, 9-methyl-beta-carboline reversed the dopamine-lowering effect of the neurotoxin in the



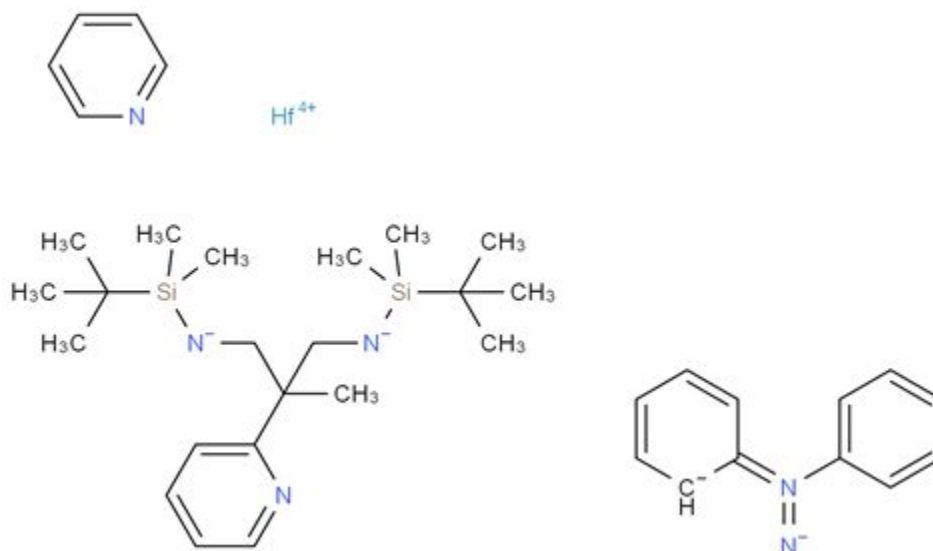
left striatum. Stereological counts of tyrosine hydroxylase-immunoreactive cells in the substantia nigra revealed that the neurotoxin caused a decrease in the number of those cells. However, when treated subsequently with 9-methyl-beta .

## $\beta$ -Carboline - Wikipedia



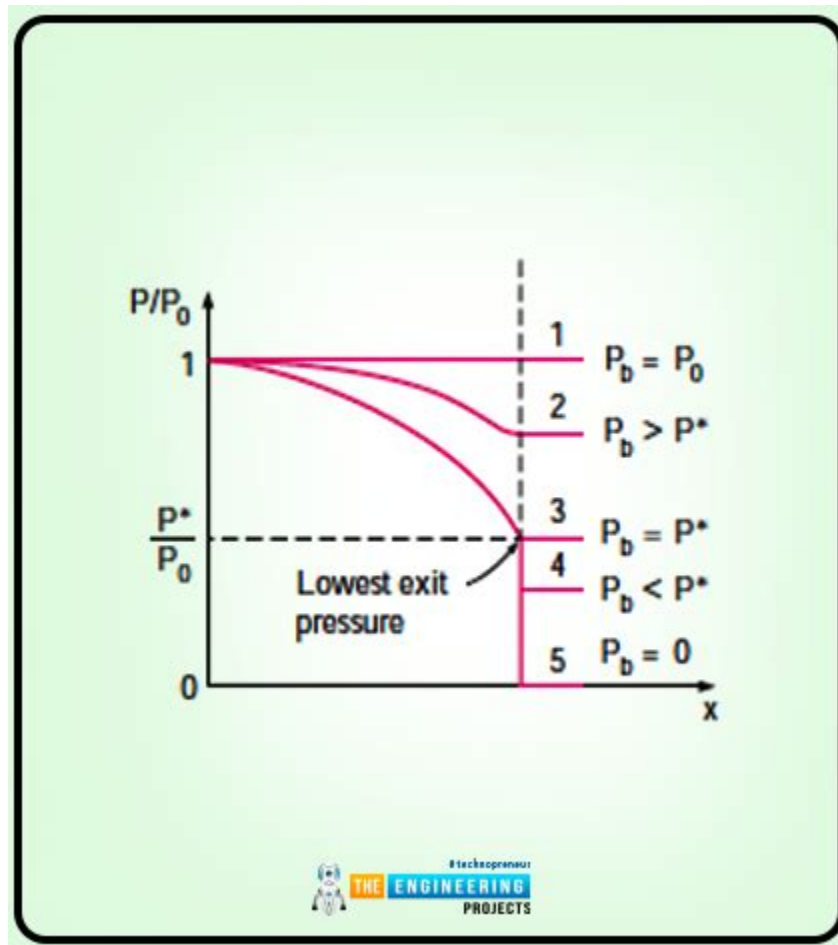
PMCID: PMC8592951 DOI: 10. 1007/s00702-020-02189-9 Abstract  $\beta$ -Carbolines (BC) are pyridoindoles, which can be found in various exogenous and endogenous sources. Recent studies revealed neurostimulative, neuroprotective, neuroregenerative and anti-inflammatory effects of 9-methyl-BC (9-Me-BC).

## 9-methyl- $\beta$ -carboline | C<sub>12</sub>H<sub>10</sub>N<sub>2</sub> | ChemSpider



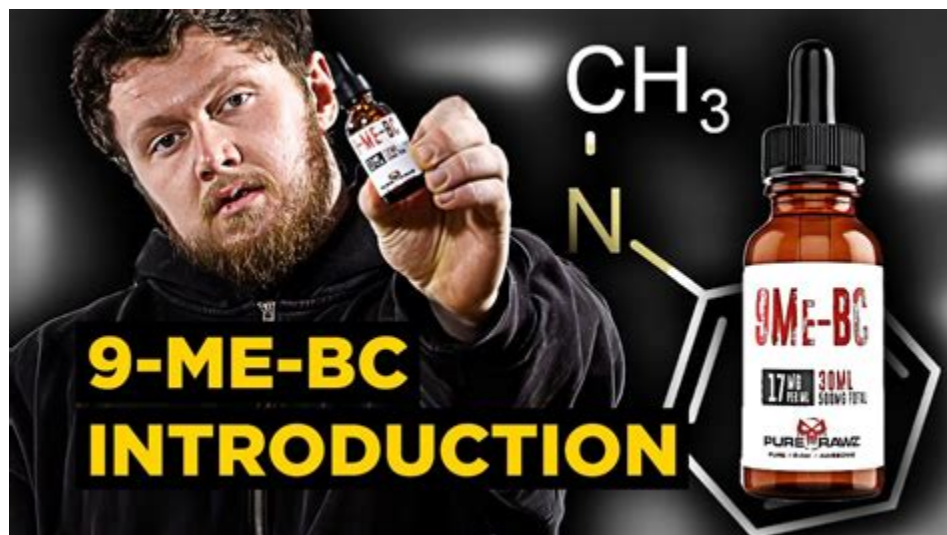
9-methyl-beta-carboline Central Nervous System Stimulants  $\beta$ -Carbolines (BCs) belong to the heterogenous family of carbolines, which have been found exogenously, that is, in various fruits, meats, tobacco smoke, alcohol and coffee, but also endogenously, that is, blood, brain and CSF.

## Beta-Carboline - an overview | ScienceDirect Topics



A recent study in an animal model of PD described that in vivo 9-me-BC is not only able to stimulate dopaminergic cells in drug-naive animals (as shown in the present study), but also in 1-methyl-4-phenylpyridinium ion (MPP<sup>+</sup>)-pre-treated rats and thereby rescuing the PD-like phenotype indicating the neuroprotective properties of 9-me-BC .

## 9 Methyl Beta Carboline research : r/Nootropics - Reddit



9-Methyl- $\beta$ -carboline inhibits monoamine oxidase activity and stimulates the expression of neurotrophic factors by astrocytes Neurology and Preclinical Neurological Studies - Original Article Open access  
Published: 13 April 2020 127 , 999-1012 ( 2020 ) Download PDF You have full access to this open access article

## 9-Me-Bc Review: Benefits, Side Effects & Where To Buy - Nootropology



9-methyl-beta-carboline Anti-Inflammatory Agents Lipopolysaccharides Receptors, Cytokine L-Lactate Dehydrogenase Tyrosine 3-Monooxygenase Dopa Decarboxylase 5-ethynyl-2'-deoxyuridine Beta-carbolines (BCs) are potential endogenous and exogenous neurotoxins that may contribute to the pathogenesis of Parkinson's disease.

# 9-Methyl- $\beta$ -carboline inhibits monoamine oxidase activity and stimulates .

Journal of Neural Transmission (2020) 127:999–1012  
https://doi.org/10.1007/s00702-020-02189-9

NEUROLOGY AND PRECLINICAL NEUROLOGICAL STUDIES · ORIGINAL ARTICLE



## 9-Methyl- $\beta$ -carboline inhibits monoamine oxidase activity and stimulates the expression of neurotrophic factors by astrocytes

Sebastian Keller<sup>1</sup> · Witold Henryk Polanski<sup>1,2</sup> · Christoph Enzensperger<sup>3,4</sup> · Heinz Reichmann<sup>1</sup> · Andreas Hermann<sup>1,3,6</sup> · Gabriele Gille<sup>1</sup>

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© The Author(s) 2020, corrected publication 2021

### Abstract

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**Keywords** Dopaminergic neurons · Astrocytes · 9-Methyl- $\beta$ -carboline · Inhibition of monoamine oxidase A and B · Neurotrophic factors

### Abbreviations

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Sebastian Keller and Witold Polanski contributed equally to this work.

Sebastian Keller and Witold Polanski: joint first authors.

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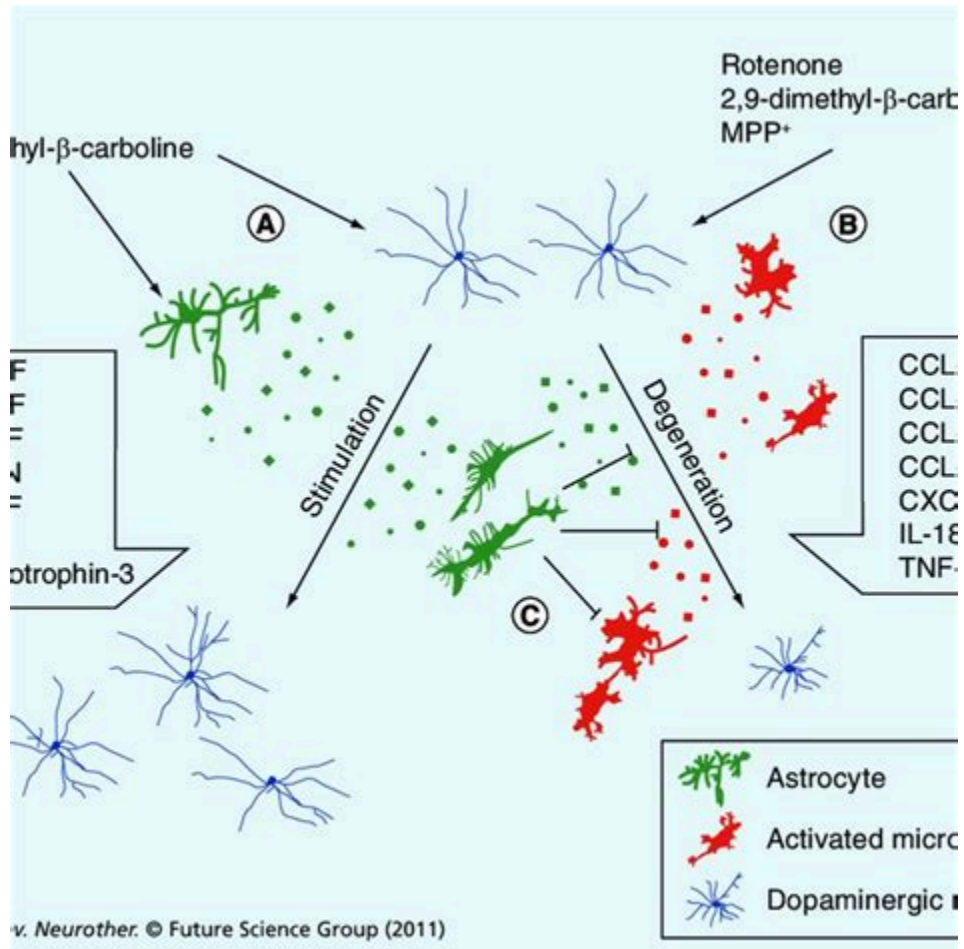
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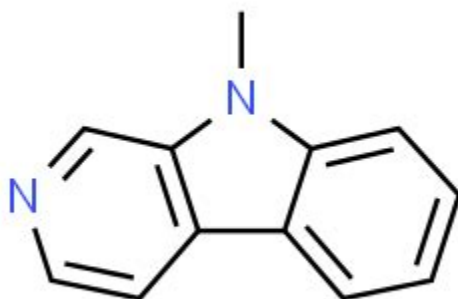
9-Methyl- $\beta$ -carboline (9-Me-BC) is a heterocyclic amine of the  $\beta$ -carboline family, and a research chemical. [1] Chemistry 9-Me-BC is a methylated derivative of  $\beta$ -carboline with the molecular formula C<sub>12</sub>H<sub>10</sub>N<sub>2</sub>. It may be prepared by performing the Eschweiler-Clarke reaction on freebase  $\beta$ -carboline (norharmine) [citation needed]

## Stimulation, protection and regeneration of dopaminergic neurons by 9-Me-BC.



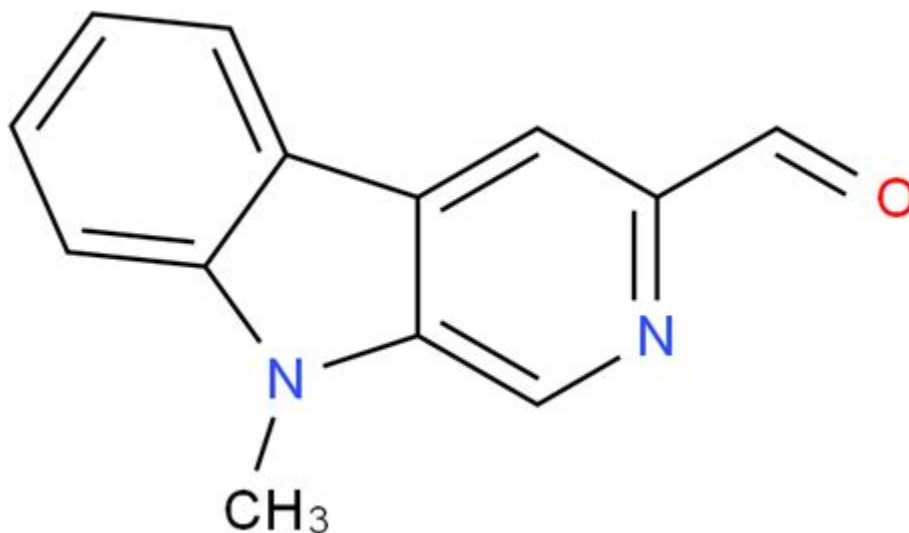
9-Me-BC, also known as 9-Methyl- $\beta$ -carboline, is a member of the  $\beta$ -carboline family. It's an intriguing heterocyclic amine that has caught researchers' attention. Its unique chemical structure makes it a promising candidate for use in cognitive enhancement. Today, we'll examine how it works and if it's really worth using as a nootropic supplement.

## 9-Methyl-beta-carboline up-regulates the appearance of differentiated .



• 4 yr. ago by Volcanyx NSFW 9 Methyl Beta Carboline research So I decided to buy some 9 Methyl Beta Carboline and I have been extremely impressed so far so I figured I would write up a little bit of a log to detail the results.

### 9-Methyl- $\beta$ -carboline - Wikipedia



Finally, 9-methyl- $\beta$ -carboline acts on multiple targets in the inflammatory cascade by inhibiting the proliferation of microglia, by decreasing chemotactic cytokines and by creating an anti-inflammatory environment in the CNS. This article summarizes our current knowledge of 9-methyl-carboline and discusses its potential role as a new drug for .

# 9-Methyl- $\beta$ -carboline inhibits monoamine oxidase activity . - Springer

Journal of Neural Transmission (2020) 127:999–1012  
https://doi.org/10.1007/s00702-020-02189-9

NEUROLOGY AND PRECLINICAL NEUROLOGICAL STUDIES · ORIGINAL ARTICLE



## 9-Methyl- $\beta$ -carboline inhibits monoamine oxidase activity and stimulates the expression of neurotrophic factors by astrocytes

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Sebastian Keller and Witold Polanski: joint first authors.

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9-Me-BC (9-Methyl-9H-beta-carboline) WARNING: This product is not for human or veterinary use. We ship worldwide to all countries! Free international shipping for a limited time! Delivery in 10 days to most countries! 9-Me-BC (9-Methyl-9H-beta-carboline) For Sale | 1g \$89.95 GMP manufactured 3rd party lab tested Free Shipping Worldwide!

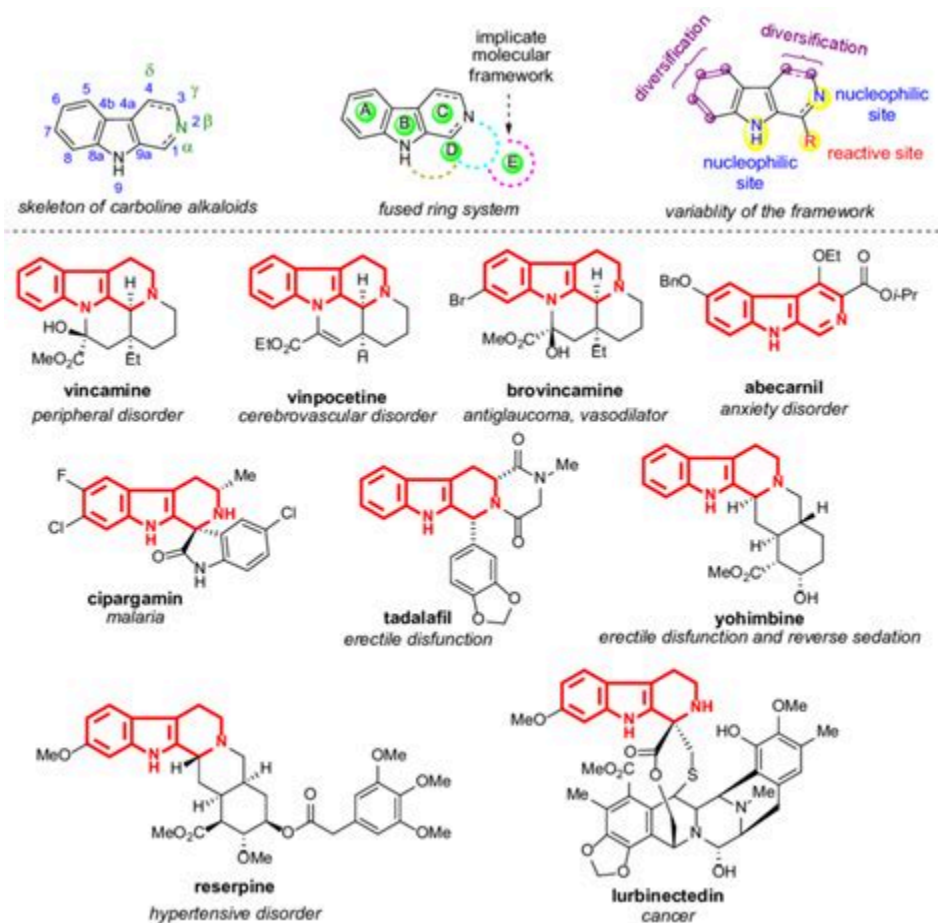
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pyrido[3,4-b]indole M2818, M2818: Storage: Minimize open air exposure, store in a cool dry place:  
 Reports:

### The exceptional properties of 9-methyl- $\beta$ -carboline: stimulation .



All three were 9-methyl- $\beta$ -carboline xHCl, which belongs to the -carboline compound class, yet is not a neurotoxic, but a neuroprotective member of this class (Hamann et al, 2008). Hence .

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Extended author information available on the last page of the article



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9-methyl- $\beta$ -carboline Molecular Formula CHN Average mass 182. 221 Da Monoisotopic mass 182. 084396 Da ChemSpider ID 144638 More details: Names Properties Searches Spectra Vendors Articles More Names and Synonyms Validated by Experts, Validated by Users, Non-Validated, Removed by Users 2521-07-5 [RN] 9H-Pyrido (3,4-b)indole, 9-methyl-

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