

# Norharmane

Cat. No. ALK-0029

Lot. No. (See product label)



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## Product Name

Norharmane

## CAS No.

244-63-3

## Synonyms

Norharman;  $\beta$ -Carboline

## Description

Norharmane (Norharman), a  $\beta$ -carboline alkaloid, is a potent and reversible monoamine oxidase inhibitor, with IC50 values of 6.5 and 4.7  $\mu$ M for MAO-A and MAO-B, respectively. Norharmane causes antidepressant responses. Norharmane is also a prospective anti-cancer photosensitizer. Norharmane alters polar auxin transport (PAT) by inhibiting PIN2, PIN3 and PIN7 transport proteins, thus causing a significant inhibitory effect on the growth of *Arabidopsis thaliana* seedlings.

## Structural Formula

Norharmane

## MW

168.2

## MF

C11H8N2

## Purity

0.9946

## Appearance

Solid

## Solubility

DMSO : 11 mg/mL(65.40 mM;Need ultrasonic) H2O : (insoluble)

## IC50 & Target

CXCR2 Human Endogenous Metabolite

## Shipping

Room temperature in continental US; may vary elsewhere.

## SMILES

N1C2=C(C=CC=C2)C2=C1C=NC=C2

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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## In Vivo

Norharmane (0-10 mg/kg, IP, once) shows an anxiety- and antidepressant-like behavior, and decreased locomotor activity.

## In Vitro

Norharmane attenuates quinolinic acid formation by interferon-gamma-stimulated monocytes THP-1 cells and attenuates L-kynurenine formation, with IC50 values of 51  $\mu$ M and 43  $\mu$ M, respectively. Norharmane has the potential for use as an antibiotic adjuvant to enhance the efficacy of conventional antibiotics to reduce pathogenic bacterial infections.

## Storage

-20°C for 3 years

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