

# Narciclasine

Catalog No: tcsc1051



## Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg



## Specifications

**CAS No:**

29477-83-6

**Formula:**

$C_{14}H_{13}NO_7$

**Pathway:**

TGF-beta/Smad;Stem Cell/Wnt;Cell Cycle/DNA Damage

**Target:**

ROCK;ROCK;ROCK

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 26$  mg/mL (84.62 mM)

**Alternative Names:**

Lycoricidinol

**Observed Molecular Weight:**

307.26

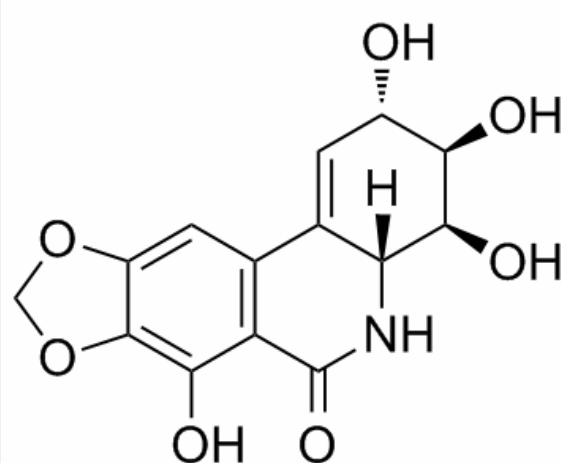
## Product Description

Narciclasine is a plant growth modulator. Narciclasine modulates the Rho/Rho kinase/LIM kinase/cofilin signaling pathway, greatly increasing GTPase RhoA activity as well as inducing actin stress fiber formation in a RhoA-dependent manner.

IC<sub>50</sub> & Target: Rho<sup>[1]</sup>

**In Vitro:** Narciclasine activates Rho and stress fibers in glioblastoma multiforme cells. The mean IC<sub>50</sub> of ~50 nM calculated on the 6 human glioblastoma multiforme (U373, Hs683, GL19, GL5, GL16, GL17), The mean IC<sub>50</sub> value of 47 nM for Narciclasine across a panel of 60 cancer cell lines<sup>[1]</sup>. Bioassay-guided fractionation of the A. belladonna extract resulted in the identification of lycorine as the bio-active compound. The IC<sub>50</sub> measured for radicle growth inhibition is 0.1 μM for Narciclasine<sup>[2]</sup>.

**In Vivo:** The i.v. regimen of Narciclasine at 1 mg/kg significantly (P=0.02) increases the survival of GL19 glioblastoma multiforme-bearing mice. Narciclasine when given orally at the same dose five times a week for 5 consecutive weeks also significantly increases animal survival in this model (P=0.008). Oral treatment with Narciclasine at 1 mg/kg significantly increases the survival (P=0.004) of Hs683 glioblastoma multiforme-bearing mice. Increasing the number of doses administered per week does not increase the survival of these Hs683 glioblastoma multiforme-bearing mice. Narciclasine appears to show similar increased survival in these models to temozolomide but at appreciable lower doses and following both oral and i.v. administration<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!