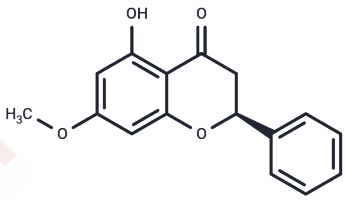
Data Sheet (Cat.No.TN2082)

TargetMol

Pinostrobin

Chemical Properties



CAS No. : 480-37-5

Formula: C16H14O4

Molecular Weight: 270.28

Storage: Keep away from moisture,Keep away from direct sunlight
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	Pinostrobin, a potent flavonoid inducer, exerts a neuroprotective effect against Aα2(25-35)-induced neurotoxicity in PC12 cells, at least in part, via inhibiting oxidative damage and calcium overload, as well as suppressing the mitochondrial pathway of cellular apoptosis.
Targets(IC50)	Apoptosis,Beta Amyloid,HSV,IL Receptor,Interleukin,Serine Protease,Serine/threonin kinase,TNF
In vitro	Pinostrobin was isolated from the dichloromethane extract of Renealmia alpinia leaves. The protective properties of the extract and of Pinostrobin against the indirect hemolytic, coagulant and proteolytic effects of Bothrops asper venom were evaluated in vitro, and the anti-hemorrhagic and anti-inflammatory activity were evaluated in vivo. Renealmia alpinia extract significantly inhibited the proteolytic activity and indirect hemolytic activity of Bothrops asper venom at a venom:extract ratio of 1:20. Moreover, the present data demonstrate that Pinostrobin may mitigate some venom-induced local tissue damage due to hemorrhagic effects, and the compound is also responsible for the analgesic and anti-inflammatory activity of the extract from Renealmia alpinia. This is the first report to describe Pinostrobin in the species Renealmia alpinia and its properties in vitro against Bothrops asper venom[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (221.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6999 mL	18.4993 mL	36.9987 mL
5 mM	0.740 mL	3.6999 mL	7.3997 mL
10 mM	0.370 mL	1.8499 mL	3.6999 mL
50 mM	0.074 mL	0.370 mL	0.740 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

Inhibition of the toxic effects of Bothrops asper venom by pinostrobin, a flavanone isolated from Renealmia alpinia (Rottb.) MAAS.J Ethnopharmacol. 2014 Sep 29;155(3):1609-15.