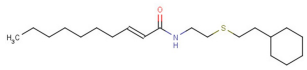
Data Sheet (Cat.No.T13488)

TargetMol
A DRUG SCREENING EXPERT

2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide

Chemical Properties



CAS No.:	137089-36-2
Formula:	C20H37NOS
Molecular Weight:	339.58
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide is a compound that inhibits stress-induced ulcer. It can maintain the content of phospholipase A2 and prostaglandin E2 in ulcerated rats induced by water immersed restrained stress.
Targets(IC_{50})	PGE2: None
In vivo	2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide (compd.III-1α, 100 mg/kg, p.o.) maintains the relative content of Fr.I hexose, lipid peroxide and phospholipase A2 (PLA2) in normal level in ulcerated rats induced by water immersed restrained stress via dosing twice a day for 3 day (b.i.d. for 3 d). 2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide (25 mg/kg, p.o.) blocks the reduction of prostaglandin E2 (PGE2) and PGI2 in early phase and accelerates the increase of PGE2 and PGI2 in the late phase of the stress. It (25 mg/kg, p.o.) also significantly accelerates the cell proliferation in fundic glands in gastric mucosa of mice. 2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide (100 mg/kg, p.o.) reduces the hexosamine content equally with the control group 4 h after the stress loading, and then markedly increases 7 h after stress loading.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.945 mL	14.724 mL	29.448 mL
5 mM	0.589 mL	2.945 mL	5.89 mL
10 mM	0.294 mL	1.472 mL	2.945 mL
50 mM	0.059 mL	0.294 mL	0.589 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Kohda I, et al. Further studies on the anti-ulcerogenic effects of compound, 2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide. Chem Pharm Bull (Tokyo). 1991 Jul;39(7):1832-6.

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