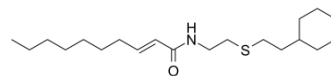


## 2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide

Cat. No.:	HY-100287
CAS No.:	137089-36-2
Molecular Formula:	C <sub>20</sub> H <sub>37</sub> NOS
Molecular Weight:	339.58
Target:	Prostaglandin Receptor; Phospholipase
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide is a compound that inhibits stress-induced ulcer and low toxicity, and can maintain the content of phospholipase A2 and prostaglandin E2 in ulcerated rats induced by water immersed restrained stress.		
<b>IC<sub>50</sub> &amp; Target</b>	PGE <sub>2</sub>	PGI <sub>2</sub>	PLA <sub>2</sub>
<b>In Vivo</b>	<p>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 (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. 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. 2-(E-2-decenoylamino)ethyl 2-(cyclohexylethyl) sulfide (25 mg/kg, p.o.) also significantly accelerates the cell proliferation in fundic glands in gastric mucosa of mice<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>		

### REFERENCES

[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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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