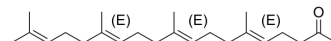


## (5E,9E,13E)-Teprenone

Cat. No.:	HY-B0779A
CAS No.:	3796-63-2
Molecular Formula:	C <sub>23</sub> H <sub>38</sub> O
Molecular Weight:	330.55
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 5 mg/mL (15.13 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.0253 mL	15.1263 mL	30.2526 mL
				5 mM	0.6051 mL	3.0253 mL	6.0505 mL
				10 mM	0.3025 mL	1.5126 mL	3.0253 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.5 mg/mL (1.51 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.5 mg/mL (1.51 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	(5E,9E,13E)-Teprenone ((5E,9E,13E)-Geranylgeranylacetone) is an isomer of Teprenone with antiulcer activity. (5E,9E,13E)-Teprenone induces transcriptional activation of HSP genes that may increase gastric mucosal defense at conditions of stress [1].
In Vitro	(5E,9E,13E)-Teprenone might transiently activate the transcription of HSP70 gene <sup>[1]</sup> . The heat shock element-binding activity reflects the activation of heat shock factor 1 in response to (5E,9E,13E)-Teprenone [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(5E,9E,13E)-Teprenone induces heat shock proteins accumulations in rat gastric mucosa <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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Animal Model:	Male Wister strain rats (~250 g) <sup>[1]</sup>
Dosage:	200 mg/kg
Administration:	Oral administration
Result:	Caused accumulations of all of HSP90, HSP70, HSC70 and HSP60 within 60 minutes.

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## REFERENCES

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[1]. Hirakawa T, et al. Geranylgeranylacetone induces heat shock proteins in cultured guinea pig gastric mucosal cells and rat gastric mucosa. *Gastroenterology*. 1996 Aug;111(2):345-57.

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

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