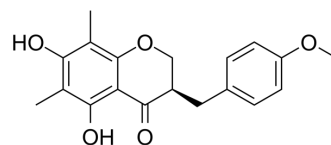


## Methylphiopogonanone B

Cat. No.:	HY-N2438
CAS No.:	74805-91-7
Molecular Formula:	C <sub>19</sub> H <sub>20</sub> O <sub>5</sub>
Molecular Weight:	328.36
Target:	Ras
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (304.54 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.0454 mL	15.2272 mL	30.4544 mL
				5 mM	0.6091 mL	3.0454 mL	6.0909 mL
				10 mM	0.3045 mL	1.5227 mL	3.0454 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.61 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Methylphiopogonanone B, homoisoflavonoid, is extracted from the root of <i>Ophiopogon japonicus</i> , shows high antioxidant ability <sup>[1]</sup> . Methylphiopogonanone B increases GTP-Rho and acts via the Rho signaling pathway, inducing cell morphological change via actin cytoskeletal reorganization, including dendrite retraction and stress fiber formation <sup>[2]</sup> .
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### REFERENCES

- [1]. Wang Y, et al. Homoisoflavonoids and the Antioxidant Activity of *Ophiopogon japonicus* Root.
- [2]. Ito Y, et al. A novel agent, methylphiopogonanone B, promotes Rho activation and tubulin depolymerization. *Mol Cell Biochem.* 2007 Mar;297(1-2):121-9. Epub 2006 Oct 7.

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

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