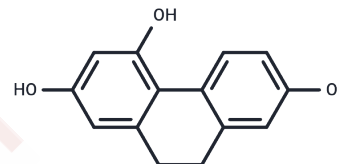


## 2,4,7-Trihydroxy-9,10-dihydrophenanthrene

### Chemical Properties

CAS No. :	70205-52-6
Formula:	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>
Molecular Weight:	228.247
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	2,4,7-Trihydroxy-9,10-dihydrophenanthrene demonstrates DPPH free radical scavenging activity with an EC(50) ranging from 8.8 to 55.9 μM.
Targets(IC50)	Others, Reactive Oxygen Species
In vitro	Three new 9,10-dihydrophenanthrene derivatives named phoyunnanins A-C, together with six known 9,10-dihydrophenanthrene constituents, 4,4',7,7'-tetrahydroxy-2,2'-dimethoxy-9,9',10,10'-tetrahydro-1,1'-biphenanthrene (4), lusianthridin (5), eulophiol (6), 2,4,7-Trihydroxy-9,10-dihydrophenanthrene (7) and imbricatin (8), were isolated from the 60% ethanolic extract of air-dried whole plant of <i>Pholidota yunnanensis</i> Rolfe. The structures of phoyunnanins A-C were established as 6-[2'-(3',3''-dihydroxy-5'-methoxybiphenyl)]-4,7-dihydroxy-2-methoxy-9,10-dihydrophenanthrene (1), 6-[6'-(trans-3',3''-dihydroxy-5'-methoxystilbenyl)]-4,7-dihydroxy-2-methoxy-9,10-dihydrophenanthrene (2) and 4,4',7,7'-tetrahydroxy-2,2'-dimethoxy-9,9',10,10'-tetrahydro-1,6'-biphenanthrene (3), respectively, on the basis of the spectroscopic analysis.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3812 mL	21.9058 mL	43.8116 mL
5 mM	0.8762 mL	4.3812 mL	8.7623 mL
10 mM	0.4381 mL	2.1906 mL	4.3812 mL
50 mM	0.0876 mL	0.4381 mL	0.8762 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

9, 10-Dihydrophenanthrene derivatives from *Pholidota yunnanensis* and scavenging activity on DPPH free radical.J Asian Nat Prod Res. 2007 Mar;9(2):165-74.

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