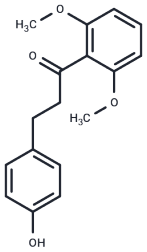
Data Sheet (Cat.No.TN1517)

TargetMol

1-(2,6-dimethoxyphenyl)-3-(4-hydroxyphenyl)propan-1-one

Chemical Properties



CAS No. : 221696-69-1

Formula: C17H18O4

Molecular Weight: 286.32

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	1-(2,6-dimethoxyphenyl)-3-(4-hydroxyphenyl)propan-1-one (Cochinchinenin A) is the material basis for the analgesic effect of Dragons Blood.
Targets(IC50)	Others
In vitro	According to the operational definition of material basis for the efficacy of TCM established, the material basis of the modulation on the TTX-R sodium currents in DRG neurons of dragon??s blood was judged from the experimental results. The drug interaction equation of Greco et al. was used to assess the interaction of the three components extracted from dragon??s blood. This investigation demonstrated that dragon??s blood suppressed the peak TTX-R sodium currents in a dose-dependent way and affected the activations of TTX-R sodium currents. The effects of the combination of Cochinchinenin A, cochinchinenin B, and loureirin B were in good agreement with those of dragon??s blood. Although the three components used alone could modulate TTX-R sodium currents, the concentrations of the three components used alone were respectively higher than those used in combination when the inhibition rates on the TTX-R sodium currents of them used alone and in combination were the same. The combined effects of the three components were synergistic.

Solubility Information

Solubility	DMSO: 50 mg/mL (174.63 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4926 mL	17.463 mL	34.926 mL
5 mM	0.6985 mL	3.4926 mL	6.9852 mL
10 mM	0.3493 mL	1.7463 mL	3.4926 mL
50 mM	0.0699 mL	0.3493 mL	0.6985 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

Modulation of dragons blood on tetrodotoxin-resistant sodium currents in dorsal root ganglion neurons and identification of its material basis for efficacy Science in China Series C June 2006, Volume 49, Issue 3, pp 274-285