

## Guaiacol

## Chemical Properties

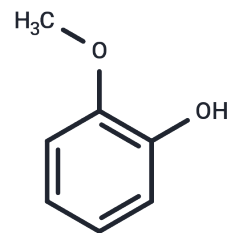
CAS No. : 90-05-1

Formula: C<sub>7</sub>H<sub>8</sub>O<sub>2</sub>

Molecular Weight: 124.14

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Guaiacol (2-Methoxyphenol) is a precursor to various flavorants, such as eugenol and vanillin. Its derivatives are used medicinally as an expectorant, antiseptic, and local anesthetic. It also can be used as an indicator in chemical reactions that produce oxygen. When oxygen binds to it, the complex turns yellowish brown and absorbs light maximally at about 470 nm.
Targets(IC50)	NF-κB, Endogenous Metabolite, COX

## Solubility Information

Solubility	DMSO: 250 mg/mL (2013.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (16.11 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	8.0554 mL	40.2771 mL	80.5542 mL
5 mM	1.6111 mL	8.0554 mL	16.1108 mL
10 mM	0.8055 mL	4.0277 mL	8.0554 mL
50 mM	0.1611 mL	0.8055 mL	1.6111 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

Dorfner R, et al. J Agric Food Chem. 2003 Sep 10;51(19):5768-73.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481