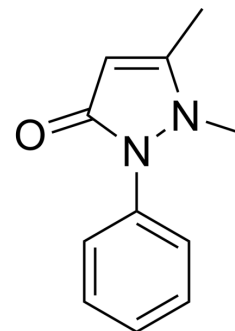


Antipyrine

Cat. No.:	HY-B0171
CAS No.:	60-80-0
Molecular Formula:	C ₁₁ H ₁₂ N ₂ O
Molecular Weight:	188.23
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (531.26 mM; Need ultrasonic)
 H₂O : ≥ 100 mg/mL (531.26 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.3126 mL	26.5632 mL	53.1265 mL
	5 mM		1.0625 mL	5.3126 mL	10.6253 mL
	10 mM		0.5313 mL	2.6563 mL	5.3126 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 110 mg/mL (584.39 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Antipyrine (Phenazone) is an antipyretic and analgesic. Antipyrine can be used as a probe agent for oxidative agent metabolism. Antipyrine has been widely used in assessment of hepatic oxidative capacity^{[1][2]}.

CUSTOMER VALIDATION

- Pharmacol Res Perspect. 2021 Oct;9(5):e00879.
- Pharmacol Res Perspect. 2020 Apr;8(2):e00575.

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REFERENCES

[1]. Stevenson, I.H., Factors influencing antipyrine elimination. Br J Clin Pharmacol, 1977. 4(3): p. 261-5.

[2]. Engel G, et, al. Antipyrine as a probe for human oxidative drug metabolism: identification of the cytochrome P450 enzymes catalyzing 4-hydroxyantipyrine, 3-hydroxymethylantipyrine, and norantipyrine formation. Clin Pharmacol Ther. 1996 Jun;59(6):613-23.

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

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