Imidazole

Cat. No.:	HY-D0837
CAS No.:	288-32-4
Molecular Formula:	$C_3H_4N_2$
Molecular Weight:	68.08
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years
	4°C 2 years
	In solvent -80°C 6 months
	-20°C 1 month
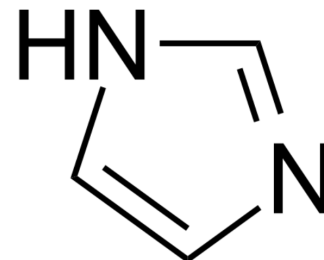
SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 100 mg/mL (1468.86 mM)

DMSO : 100 mg/mL (1468.86 mM; Need ultrasonic)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	14.6886 mL	73.4430 mL	146.8860 mL
	5 mM	2.9377 mL	14.6886 mL	29.3772 mL
	10 mM	1.4689 mL	7.3443 mL	14.6886 mL

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

In Vivo

1. Add each solvent one by one: PBS
    Solubility: 100 mg/mL (1468.86 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Imidazole, a highly polar compound containing planar five-membered rings, has been widely used as a corrosion inhibitor. Derivatives of Imidazole have antimicrobial, anti-inflammatory, and antitumor activities[1][2].
IC$_{50}$ & Target	Human Endogenous Metabolite

CUSTOMER VALIDATION

• Int J Mol Sci. 2018 May 7;19(5). pii: E1393.

- Mol Nutr Food Res. 2022 May 18;e2101175.

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REFERENCES

[1]. Bae SH, et al. Imidazole Antifungal Drugs Inhibit the Cell Proliferation and Invasion of Human Breast Cancer Cells. Biomol Ther (Seoul). 2018 Sep 1;26(5):494-502.

[2]. Siwach A, et al. Synthesis and therapeutic potential of imidazole containing compounds. BMC Chem. 2021 Feb 18;15(1):12.

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

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