Uracil

Cat. No.: HY-I0960

CAS No.: 66-22-8

Molecular Formula: $C_4H_4N_2O_2$

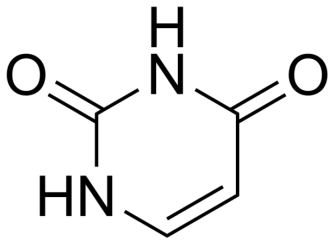
Molecular Weight: 112.09

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

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 : ≥ 25 mg/mL (223.04 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	8.9214 mL	44.6070 mL	89.2140 mL
5 mM	1.7843 mL	8.9214 mL	17.8428 mL
10 mM	0.8921 mL	4.4607 mL	8.9214 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (22.30 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (22.30 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (22.30 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Uracil is a common and naturally occurring pyrimidine derivative and one of the four nucleobases in the nucleic acid of RNA.

IC_{50} & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Microbiome. 2019 Mar 20;7(1):43.
- Cell Mol Life Sci. 2024 Jan 22;81(1):50.
- Laurea Magistrale in Biomedical Engineering, Politecnico di Milano. 2019 Jun.

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REFERENCES

[1]. Pałasz A, et al. In search of uracil derivatives as bioactive agents. Uracils and fused uracils: Synthesis, biological activity and applications. Eur J Med Chem. 2015 Jun 5;97:582-611.

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