SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# 5-Hydroxymethyluracil

**Cat. No.:** HY-W004924

**CAS No.:** 4433-40-3

**Molecular Formula:** $C_5H_6N_2O_3$

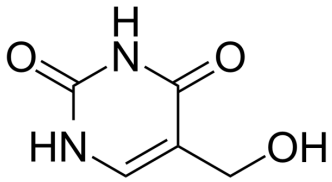
**Molecular Weight:** 142.11

**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**

DMSO : 50 mg/mL (351.84 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 7.0368 mL | 35.1840 mL | 70.3680 mL |
| 5 mM | 1.4074 mL | 7.0368 mL | 14.0736 mL |
| 10 mM | 0.7037 mL | 3.5184 mL | 7.0368 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 (17.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (17.59 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (17.59 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

5-Hydroxymethyluracil is a product of oxidative DNA damage. 5-Hydroxymethyluracil can be used as a potential epigenetic mark enhancing or inhibiting transcription with bacterial RNA polymerase.

**$IC_{50}$ & Target**

Human Endogenous Metabolite

## REFERENCES

[1]. Djuric Z, et al. Quantitation of 5-(hydroxymethyl)uracil in DNA by gas chromatography with mass spectral detection. Chem Res Toxicol. 1991 Nov-Dec;4(6):687-91.

[2]. Janoušková M, et al. 5-(Hydroxymethyl)uracil and -cytosine as potential epigenetic marks enhancing or inhibiting transcription with bacterial RNA polymerase. Chem Commun (Camb). 2017 Dec 12;53(99):13253-13255.



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