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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

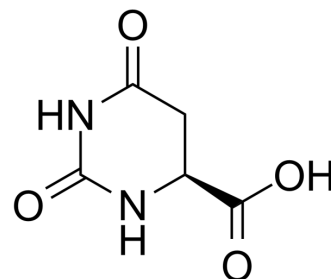
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

L-Dihydroorotic acid

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-W015495 | | |
| CAS No.: | 5988-19-2 | | |
| Molecular Formula: | C ₅ H ₆ N ₂ O ₄ | | |
| Molecular Weight: | 158.11 | | |
| 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

DMF : 33.33 mg/mL (210.80 mM; Need ultrasonic)
 DMSO : 25 mg/mL (158.12 mM; ultrasonic and warming and heat to 60°C)
 H₂O : 5 mg/mL (31.62 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 6.3247 mL | 31.6236 mL | 63.2471 mL |
| | 5 mM | 1.2649 mL | 6.3247 mL | 12.6494 mL |
| | 10 mM | 0.6325 mL | 3.1624 mL | 6.3247 mL |

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 7.69 mg/mL (48.64 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMF >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (15.81 mM); Clear solution
- Add each solvent one by one: 10% DMF >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (15.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (15.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (15.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (15.81 mM); Clear solution

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | L-Dihydroorotic acid can reversibly hydrolyze to yield the acyclic L-ureidosuccinic acid by dihydroorotase enzyme ^[1] . |
| IC₅₀ & Target | Human Endogenous Metabolite |

REFERENCES

[1]. St. Louis, Missouri, et al. ENZYMATIC SYNTHESIS AND BREAKDOWN OF A PYRIMIDINE, OROTIC ACID. October 28, 1953.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA