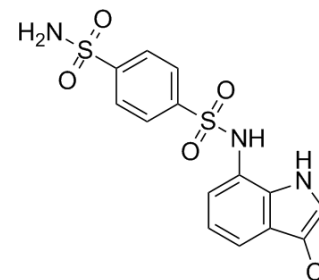


Indisulam

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-13650 | | |
| CAS No.: | 165668-41-7 | | |
| Molecular Formula: | C ₁₄ H ₁₂ ClN ₃ O ₄ S ₂ | | |
| Molecular Weight: | 385.85 | | |
| Target: | Carbonic Anhydrase | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



Solvent & Solubility

In Vitro

DMSO : 130 mg/mL (336.92 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass | | |
|---------------------------|-----------------------|-----------|------------|------------|
| | | 1 mg | 5 mg | 10 mg |
| | 1 mM | 2.5917 mL | 12.9584 mL | 25.9168 mL |
| | 5 mM | 0.5183 mL | 2.5917 mL | 5.1834 mL |
| | 10 mM | 0.2592 mL | 1.2958 mL | 2.5917 mL |

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

In Vivo

- Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
Solubility: ≥ 2.17 mg/mL (5.62 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% corn oil**
Solubility: ≥ 2.17 mg/mL (5.62 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.17 mg/mL (5.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Indisulam (E 7070) is a **carbonic anhydrase** inhibitor and a G1-targeting agent. Indisulam causes a blockade in the G1/S transition through inhibition of the activation of both cyclin-dependent kinase 2 (CDK2) and cyclin E. Shows anti-tumor activity in human colon and lung cancer cells^{[1][2]}.

IC₅₀ & Target

Carbonic anhydrase^[1].

REFERENCES

- [1]. Ozawa Y, et al. E7070, a novel sulphonamide agent with potent antitumour activity in vitro and in vivo. *Eur J Cancer*. 2001 Nov;37(17):2275-82.
- [2]. Abbate F, et al. Carbonic anhydrase inhibitors: E7070, a sulfonamide anticancer agent, potently inhibits cytosolic isozymes I and II, and transmembrane, tumor-associated isozyme IX. *Bioorg Med Chem Lett*. 2004 Jan 5;14(1):217-23.
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Caution: Product has not been fully validated for medical applications. For research use only.

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