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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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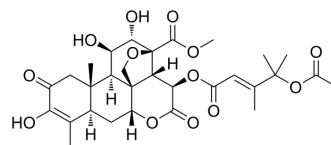
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Bruceantinol

| | | | |
|--------------------|-------------------------------------------------|-------|----------|
| Cat. No.: | HY-N8146 | | |
| CAS No.: | 53729-52-5 | | |
| Molecular Formula: | C ₃₀ H ₃₈ O ₁₃ | | |
| Molecular Weight: | 606.61 | | |
| Target: | STAT | | |
| Pathway: | JAK/STAT Signaling; Stem Cell/Wnt | | |
| 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 (82.43 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | Preparing Stock Solutions | | 10 mg | |
| | 1 mM | 1.6485 mL | 8.2425 mL | 16.4851 mL |
| | 5 mM | 0.3297 mL | 1.6485 mL | 3.2970 mL |
| | 10 mM | 0.1649 mL | 0.8243 mL | 1.6485 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: ≥ 1.25 mg/mL (2.06 mM); Clear solution | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.06 mM); Clear solution | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.06 mM); Clear solution | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Bruceantinol, a quassinoid isolated from <i>Brucea javanica</i> , inhibits pepper mottle virus in pepper ^[1] . Bruceantinol is a STAT3 inhibitor demonstrating potent antitumor activity in in vitro and in vivo human colorectal cancer (CRC) models. Bruceantinol strongly inhibits STAT3 DNA-binding ability (IC ₅₀ =2.4 pM), blocks the constitutive and IL-6-induced STAT3 activation, and suppresses transcription of MCL-1, PTTG1, survivin and c-Myc ^[2] . |
| IC ₅₀ & Target | IC ₅₀ : 2.4 pM (STAT3 DNA-binding ability) ^[2] |

REFERENCES

- [1]. Seung Mok Ryu, et al. Quassinoids isolated from *Brucea javanica* inhibit pepper mottle virus in pepper. *Virus Res.* 2017 Jan 2;227:49-56.
- [2]. Ning Wei, et al. Targeting colon cancer with the novel STAT3 inhibitor bruceantinol. *Oncogene.* 2019 Mar;38(10):1676-1687.
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Caution: Product has not been fully validated for medical applications. For research use only.

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