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Produktinformation

- Forschungsprodukte & Biochemikalien
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- 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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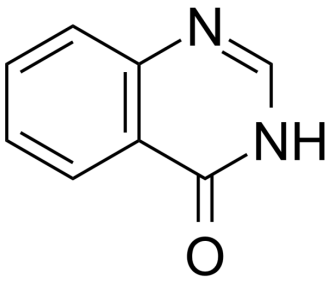
4(3H)-Quinazolinone

Cat. No.:	HY-W018800
CAS No.:	491-36-1
Molecular Formula:	$C_8H_6N_2O$
Molecular Weight:	146.15
Target:	Bacterial
Pathway:	Anti-infection
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 : 110 mg/mL (752.65 mM; Need ultrasonic)
H_2O : 1.2 mg/mL (8.21 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	6.8423 mL	34.2114 mL	68.4229 mL
5 mM	1.3685 mL	6.8423 mL	13.6846 mL
10 mM	0.6842 mL	3.4211 mL	6.8423 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: ≥ 2.75 mg/mL (18.82 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (18.82 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (18.82 mM); Clear solution
4. Add each solvent one by one: PBS
   Solubility: 2 mg/mL (13.68 mM); Clear solution; Need ultrasonic and warming and heat to 60°C

BIOLOGICAL ACTIVITY

Description

4(3H)-Quinazolinone is a building block in chemical synthesis. Biologically active nitrogen heterocyclic compounds. Possesses a wide spectrum of biological properties like antibacterial, antifungal, anticonvulsant, anti-inflammatory, anti-HIV, anticancerous and analgesic activities[1][2].

REFERENCES

[1]. Jafari E, et al. Quinazolinone and quinazoline derivatives: recent structures with potent antimicrobial and cytotoxic activities. Res Pharm Sci. 2016 Jan-Feb;11(1):1-14.

[2]. Hameed A, et al. Quinazoline and quinazolinone as important medicinal scaffolds: a comparative patent review (2011-2016). Expert Opin Ther Pat. 2018 Apr;28(4):281-297.

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