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Produktinformation

- Forschungsprodukte & Biochemikalien
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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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2-Methylquinazolin-4-ol

Cat. No.: HY-W051513

CAS No.: 1769-24-0

Molecular Formula: $C_9H_8N_2O$

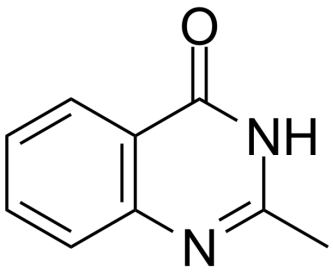
Molecular Weight: 160.17

Target: PARP

Pathway: Cell Cycle/DNA Damage; Epigenetics

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 (312.17 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

Concentration \ Solvent, Mass	1 mg	5 mg	10 mg
1 mM	6.2434 mL	31.2168 mL	62.4337 mL
5 mM	1.2487 mL	6.2434 mL	12.4867 mL
10 mM	0.6243 mL	3.1217 mL	6.2434 mL

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

BIOLOGICAL ACTIVITY

Description

2-Methylquinazolin-4-ol is a potent competitive poly(ADP-ribose) synthetase inhibitor, with a K_i of 1.1 μM. 2-Methylquinazolin-4-ol mammalian aspartate transcarbamylase (ATCase) inhibitor, with 0.20 mM[1][2].

In Vitro

2-Methylquinazolin-4-ol inhibits ATCase in a concentration-dependent manner[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

2-Methylquinazolin-4-ol (0.2-1 mg; i.g.; for two days) inhibits ATCase in a dosedependent manner in vivo[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice[2]
Dosage:	0.2 mg, 0.4 mg, 0.6 mg, 0.8 mg, 1 mg
Administration:	Oral gavage, for two days

Result:	Showed an inhibitory effect upon ATCase.

REFERENCES

[1]. S Yoshida, et al. Production of 2-methyl-4[3H]-quinazolinone, an inhibitor of poly(ADP-ribose) synthetase, by bacterium. J Antibiot (Tokyo). 1991 Jan;44(1):111-2.

[2]. Mahmoud Balbaa, et al. Inhibition of mammalian aspartate transcarbamylase by quinazolinone derivatives. J Enzyme Inhib Med Chem. 2008 Aug;23(4):483-92.

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