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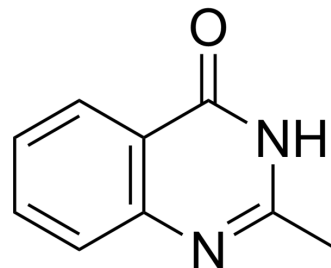
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2-Methylquinazolin-4-ol

Cat. No.:	HY-W051513
CAS No.:	1769-24-0
Molecular Formula:	C ₉ H ₈ N ₂ O
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)
H₂O : < 0.1 mg/mL (insoluble)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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:	Shown an inhibitory effect upon ATCase.
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CUSTOMER VALIDATION

- Phytomedicine. 2024 May 28:131:155758.

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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.

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

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