4-(6-Methyl-1,2,4,5-tetrazin-3-yl)phenol

Cat. No.: HY-141274

CAS No.: 58884-35-8

Molecular Formula: $C_9H_8N_4O$

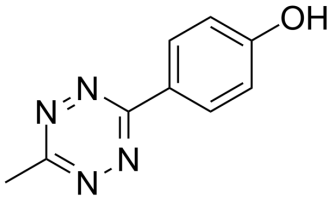
Molecular Weight: 188.19

Target: PROTAC Linkers

Pathway: PROTAC

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 : 100 mg/mL (531.38 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	5.3138 mL	26.5689 mL	53.1378 mL
	5 mM	1.0628 mL	5.3138 mL	10.6276 mL
	10 mM	0.5314 mL	2.6569 mL	5.3138 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: ≥ 2.5 mg/mL (13.28 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (13.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-(6-Methyl-1,2,4,5-tetrazin-3-yl)phenol is an alkyl chain-based PROTAC linker that can be used in the synthesis of PROTACs [1].

IC_{50} & Target

Alkyl-Chain

In Vitro

PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].

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

REFERENCES

[1]. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

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