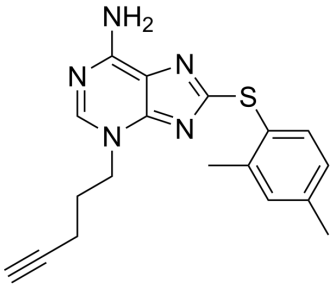
PU-H54

Cat. No.:	HY-117395
CAS No.:	1454619-13-6
Molecular Formula:	$C_{18}H_{19}N_5S$
Molecular Weight:	337.44
Target:	HSP
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
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 (296.35 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9635 mL	14.8174 mL	29.6349 mL
5 mM	0.5927 mL	2.9635 mL	5.9270 mL
10 mM	0.2963 mL	1.4817 mL	2.9635 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PU-H54, a Grp94-selective inhibitor, can be used for the research of breast cancer. Hsp90 chaperone family, comprised in humans of four paralogs, Hsp90α, Hsp90β, Grp94 and Trap-1, has important roles in malignancy[1]. PU-H54 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

REFERENCES

[1]. Pallav D Patel, et al. Paralog-selective Hsp90 inhibitors define tumor-specific regulation of HER2. Nat Chem Biol. 2013 Nov;9(11):677-84.

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

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