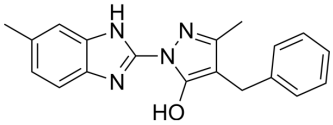
HUHS015

Cat. No.:	HY-100199
CAS No.:	1453097-13-6
Molecular Formula:	$C_{19}H_{18}N_4O$
Molecular Weight:	318.37
Target:	Others
Pathway:	Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 34 mg/mL (106.79 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.1410 mL	15.7050 mL	31.4100 mL
5 mM	0.6282 mL	3.1410 mL	6.2820 mL
10 mM	0.3141 mL	1.5705 mL	3.1410 mL

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

In Vivo

1. Add each solvent one by one: 50% PEG300 >> 50% saline
   Solubility: 5 mg/mL (15.70 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (7.85 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HUHS015 is a potent prostate cancer antigen-1 (PCA-1/ALKBH3) inhibitor with an IC_{50} of 0.67μM for PCA-1[1].

IC_{50} & Target

IC50: 0.67 μM (PCA-1)[1]

In Vitro

HUHS015 significantly suppresses the growth of DU145 cells, which are human hormone-independent prostate cancer cells [1].

	MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	HUHS015 potently suppresses the growth of DU145 cells in a mouse xenograft model[1]. HUHS015 displays 7.2% bioavailability (BA) in rats after oral administration[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Nude mice[1]
Dosage:	32 mg/kg
Administration:	Subcutaneous injection; daily; 6 days
Result:	Has inhibitory effect on the growth of subcutaneously implanted DU145, without limiting weight gains after a 6 days continuous administration.

REFERENCES

[1]. Nakao S et al. Design and synthesis of prostate cancer antigen-1 (PCA-1/ALKBH3) inhibitors as anti-prostate cancer drugs. Bioorg Med Chem Lett, 2014 Feb 15, 24(4):1071-4.

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