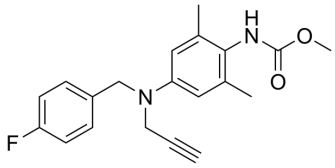
HN37

Cat. No.:	HY-145016
CAS No.:	1821222-10-9
Molecular Formula:	$C_{20}H_{21}FN_2O_2$
Molecular Weight:	340.39
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
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 (146.89 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9378 mL	14.6890 mL	29.3781 mL
5 mM	0.5876 mL	2.9378 mL	5.8756 mL
10 mM	0.2938 mL	1.4689 mL	2.9378 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 (7.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HN37 as a potent and chemically stable antiepileptic agent candidate, with an EC_{50} of 37 nM for KCNQ2[1].

In Vitro

HN37 is a potent neuronal Kv7 activator with a subtype selectivity similar to RTG[1].

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

REFERENCES

[1]. Yang-Ming Zhang, et al. Discovery of HN37 as a Potent and Chemically Stable Antiepileptic Drug Candidate. J Med Chem. 2021 May 13;64(9):5816-5837.

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

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