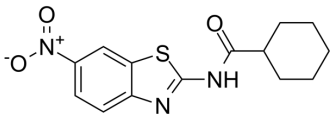
HUP30

Cat. No.:	HY-129088
CAS No.:	312747-21-0
Molecular Formula:	$C_{14}H_{15}N_3O_3S$
Molecular Weight:	305.35
Target:	Potassium Channel; Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
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 (327.49 mM; ultrasonic and warming and heat to 50°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.2749 mL	16.3747 mL	32.7493 mL
5 mM	0.6550 mL	3.2749 mL	6.5499 mL
10 mM	0.3275 mL	1.6375 mL	3.2749 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 (8.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HUP30 is a vasodilating agent. HUP30 stimulates soluble guanylyl cyclase, activate K^+ channels, and blocks extracellular Ca^{2+} influx[1].

In Vitro

HUP30 inhibits Phenylephrine-induced aorta contraction with an IC_{50} value of 3.9 μM[1].
HUP30 (100 μM) increases cGMP levels in Phenylephrine-stimulated aorta[1].
HUP30 causes an antispasmodic effect on rat aorta rings contracted by 25/30 mM K^+, with an IC_{50} value of 7.5 μM[1].
HUP30 (3-100 μM) inhibits both extracellular Ca^{2+} influx and Ca^{2+} mobilization induced by Phenylephrine[1].
HUP30 (10-100 μM) inhibits the current in single tail artery myocytes[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Fusi F, et al. 2-Aryl- and 2-amido-benzothiazoles as multifunctional vasodilators on rat artery preparations. Eur J Pharmacol. 2013 Aug 15;714(1-3):178-87.

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