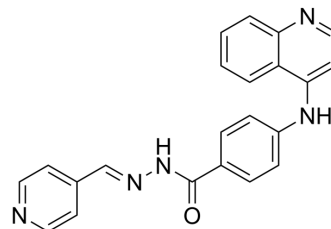


4-PQBH

Cat. No.:	HY-115901
CAS No.:	2243355-51-1
Molecular Formula:	C ₂₂ H ₁₇ N ₅ O
Molecular Weight:	367.4
Target:	Paraptosis; Nuclear Hormone Receptor 4A/NR4A
Pathway:	Apoptosis; Vitamin D Related/Nuclear Receptor
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (68.05 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7218 mL	13.6091 mL	27.2183 mL
5 mM	0.5444 mL	2.7218 mL	5.4437 mL
10 mM	0.2722 mL	1.3609 mL	2.7218 mL

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

BIOLOGICAL ACTIVITY

Description

4-PQBH is a potent Nur77 binder ($K_D=1.17 \mu\text{M}$). 4-PQBH extensively induces caspase-independent cytoplasmic vacuolization and paraptosis through Nur77-mediated ER stress and autophagy. 4-PQBH can be used for cancer research^[1].

IC₅₀ & Target

Nur77/NR4A1

REFERENCES

[1]. Baicun Li, et al. Discovery of a Nur77-mediated cytoplasmic vacuolation and paraptosis inducer (4-PQBH) for the treatment of hepatocellular carcinoma. *Bioorg Chem.* 2022 Apr;121:105651.

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

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