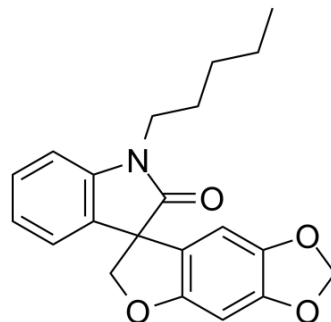


XEN907

Cat. No.:	HY-19958		
CAS No.:	912656-34-9		
Molecular Formula:	C ₂₁ H ₂₁ NO ₄		
Molecular Weight:	351.4		
Target:	Sodium 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



BIOLOGICAL ACTIVITY

Description	XEN907 is a potent and spirooxindole blocker of Na _v 1.7, with an IC ₅₀ of 3 nM. XEN907 also inhibits CYP3A4 in a recombinant human enzyme assay. XEN907 can be used for the research of pain ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ : 3 nM (Na _v 1.7) ^[1]
In Vitro	XEN907 is not cytotoxic in HepG2 cells (% viable after 16 h: >99%) ^[1] . XEN907 shows moderate hepatocyte stability (% remaining after 2 h: rat 21%; human 34%; dog 46%) across species ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	XEN907 (10 mg/kg; p.o.) exhibits moderate oral bioavailability (13 %), C _{max} (35 ng/mL), and AUC _{last} (143 h•ng/mL) in rats ^[1] . XEN907 (3 mg/kg; i.v.) exhibits terminal elimination half-life (2.6 h), high plasma clearance (9.4 L/h/kg), and large volumes of distribution (35.0 L/kg) in rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Chowdhury S, et al. Discovery of XEN907, a spirooxindole blocker of Na_v1.7 for the treatment of pain. *Bioorg Med Chem Lett*. 2011 Jun 15;21(12):3676-81.
- [2]. Chowdhury S, et, al. Tetracyclic spirooxindole blockers of hNa_v1.7: activity in vitro and in CFA-induced inflammatory pain model. *Med Chem Res* (2013) 22:1825–1836.

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

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