

Product Data Sheet

Product Name: XEN907
Cat. No.: GC30984

Chemical Properties

Cas. No. 912656-34-9

SMILES O=C(C12COC3=C1C=C(OCO4)C4=C3)N(CCCCC)C5=C2C=CC=C5

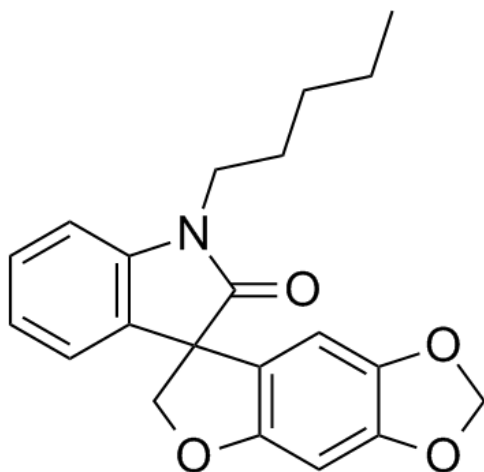
Formula $C_{21}H_{21}NO_4$ M.Wt 351.4

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

XEN907 is a novel spirooxindole NaV1.7 blocker, inhibits hNaV1.7 with IC₅₀ of 3 nM. IC₅₀ value: 3 nM. Target: NaV1.7. In vitro: XEN907 shows a further 10-fold increase in potency, represents a promising structure for further optimization efforts. XEN907 shows no significant activity at 10 μM against a broad panel of 63 receptors and transporters. Determination of the ADME properties of XEN907 reveals that XEN907 is not cytotoxic and has favourable hepatocyte metabolic stability for both human and dog, although inhibition of CYP3A4 is observed in a recombinant human enzyme assay. [1] In vivo: Pharmacokinetic analysis in rats of XEN907 demonstrates that, consistent with the

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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compound's ADME parameters, the compound is modestly bioavailable. Following an initial rapid absorption phase (oral T_{max} = 20 min), XEN907 is extensively distributed (V_{ss} 600-fold higher than the plasma volume in rats) and rapidly cleared. [1]

[1]. Chowdhury S, et al. Discovery of XEN907, a spirooxindole blocker of NaV1.7 for the treatment of pain. *Bioorg Med Chem Lett*. 2011 Jun 15;21(12):3676-81.

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