LKT Laboratories, Inc.

NS-11394

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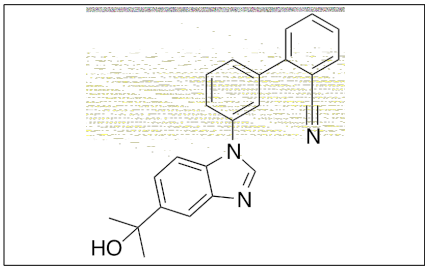
Product Information

Product ID N7200
CAS No. 951650-22-9
Chemical Name 3'-[5-(2-Hydroxy-2-propanyl)-1H-benzimidazol-1-yl]-2-biphenylcarbonitrile
Synonym NS11394; UNII-1PTH9FK74J; NS 11394; 1PTH9FK74J



Formula $C_{23}H_{19}N_3O$
Formula Wt. 353.43
Melting Point
Purity ≥98%
Solubility DMSO:43mg/ml

Bulk quanitites available upon request

Product ID	Size
N7200	1 mg
N7200	5 mg
N7200	25 mg

Store Temp -20°C
Ship Temp Ambient

Description NS-11394 is a positive modulator of GABA-A receptor activity that is somewhat specific for α5/3/2 subunits. This compound exhibits analgesic and anxiolytic activities. In vivo, NS-11394 decreases formalin-induced pain and spinal nerve-ligation-induced mechanical allodynia. NS-11394 also decreases anxiety in animal models, but its use is dose-limited by side effects that include memory impairment.

References

Hofmann M, Kordás KS, Gravius A, et al. Assessment of the effects of NS11394 and L-838417, α2/3 subunit-selective GABA(A) [corrected] receptor-positive allosteric modulators, in tests for pain, anxiety, memory and motor function. Behav Pharmacol. 2012 Dec;23(8):790-801. Erratum in: Behav Pharmacol. 2013 Apr;24(2):153. PMID: 23075708.

Hansen RR, Erichsen HK, Brown DT, et al. Positive allosteric modulation of GABA-A receptors reduces capsaicin-induced primary and secondary hypersensitivity in rats. Neuropharmacology. 2012 Dec;63(8):1360-7. PMID: 22985969.

Mirza NR, Larsen JS, Mathiasen C, et al. NS11394 [3'-[5-(1-hydroxy-1-methyl-ethyl)-benzoimidazol-1-yl]-biphenyl-2-carbonitrile], a unique subtype-selective GABAA receptor positive allosteric modulator: in vitro actions, pharmacokinetic properties and in vivo anxiolytic efficacy. J Pharmacol Exp Ther. 2008 Dec;327(3):954-68. PMID: 18791063.