
Product Data Sheet

Product Name: Dextramipexole

Cat. No.: GC35847

Chemical Properties

Cas. No. 104632-28-2

SMILES NC1=NC(CC[C@H](NCCC)C2)=C2S1Formula C₁₀H₁₇N₃S M.Wt 211.33

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

Dextramipexole (KNS-760704), also known as R-(+)-Pramipexole, is a neuroprotective agent and weak non-ergoline dopamine agonist. IC₅₀ Value: Target: Dopamine Receptor. Dextramipexole has been found to have neuroprotective effects and is being investigated for treatment of amyotrophic lateral sclerosis (ALS). Dextramipexole reduces mitochondrial reactive oxygen species (ROS) production, inhibits the activation of apoptotic pathways, and increases cell survival in response to a variety of neurotoxins and β -amyloid neurotoxicity. Compared to the S-(-) isomer, Dextramipexole has much lower dopamine agonist activity.

[1]. Rudnicki SA, Berry JD, Ingersoll E, et al. Dextramipexole effects on functional decline and survival in subjects with amyotrophic lateral sclerosis in a Phase II study: subgroup analysis of demographic and clinical characteristics. *Amyotroph Lateral Scler* [2]. Alavian KN, Dworetzky SI, Bonanni L, et al. Effects of dextramipexole on brain mitochondrial conductances and cellular bioenergetic efficiency. *Brain Res*. 2012 Mar 29;1446:1-11. [3]. Cudkowicz M, Bozik ME, Ingersoll EW, et al. The effects of dextramipexole (KNS-760704) in individuals with amyotrophic lateral sclerosis. *Nat Med*. 2011 Nov 20;17(12):1652-6. [4]. Bozik ME, Mather JL, Kramer WG, et al. Safety, tolerability, and

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

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pharmacokinetics of KNS-760704 (dexpramipexole) in healthy adult subjects. J Clin Pharmacol. 2011 Aug;51(8):1177-85. [5]. Cheah BC, Kiernan MC. Dexpramipexole, the R(+) enantiomer of pramipexole, for the potential treatment of amyotrophic lateral sclerosis. IDrugs. 2010 Dec;13(12):911-20.

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