
Product Data Sheet

Product Name: Talipexole

Cat. No.: GC37729

Chemical Properties

Cas. No. 101626-70-4

SMILES NC(S1)=NC2=C1CCN(CC=C)CC2Formula C₁₀H₁₅N₃S M.Wt 209.31

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**

Talipexole (B-HT920) is a dopamine agonist that has been proposed as an antiparkinsonian agent. Target: Dopamine Receptor B-HT920 is a selective alpha 2-adrenoceptor agonist. The effects of B-HT920 have been specified using the alpha-adrenergic antagonists yohimbine and prazosin and the dopamine antagonist haloperidol. Yohimbine could not antagonize any of the actions of B-HT920. Pretreatment with prazosin showed a decrease in the loss of body weight caused by B-HT920, while pretreatment with yohimbine showed that B-HT920 induced an increased loss in body weight. These data suggest that B-HT920 under certain conditions exerts dopamine-agonistic actions in stimulating locomotor activity and alpha 1-adrenergic actions in inducing salivation and enhanced loss of body weight [1]. Concomitant treatment with talipexole, an anti-parkinsonian drug, inhibited MPTP-induced autolysis and individual death in a concentration-dependent manner. Pramipexole showed a similar protective effect. In addition, post-treatment with talipexole at 1 hr after MPTP completely inhibited MPTP-induced individual death. Although MPTP treatment caused 30% of the planarians to undergo autolysis and individual death within 12 hr, post-treatment with talipexole even at 12 hr completely rescued the remaining 70% of the

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

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planarians from death. These results suggest that the MPTP-treated planarian may be useful as a novel parkinsonian model in which talipexole has a protective effect even in the case of post-treatment [2].

[1]. Van der Laan, J.W., Dopaminergic and alpha 1-adrenergic properties of B-HT920 revealed in morphine-dependent rats. *Pharmacol Biochem Behav*, 1987. 26(2): p. 265-9.

[2]. Kitamura, Y., J. Kakimura, and T. Taniguchi, Protective effect of talipexole on MPTP-treated planarian, a unique parkinsonian worm model. *Jpn J Pharmacol*, 1998. 78(1): p. 23-9.

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