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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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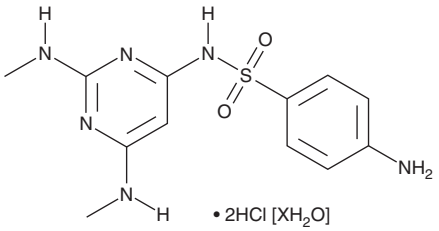
PRODUCT INFORMATION

Ro 04-6790 (hydrochloride hydrate)

Item No. 34476

Formal Name: 4-amino-N-[2,6-*bis*(methylamino)-4-pyrimidinyl]-benzenesulfonamide, dihydrochloride hydrate
MF: $C_{12}H_{16}N_6O_2S \bullet 2HCl\ [XH_2O]$
FW: 381.3
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Ro 04-6790 (hydrochloride hydrate) is supplied as a solid. A stock solution may be made by dissolving the Ro 04-6790 (hydrochloride hydrate) in the solvent of choice, which should be purged with an inert gas. Ro 04-6790 (hydrochloride hydrate) is soluble in in the organic solvent DMSO at a concentration of approximately 15 mg/ml. It is also soluble in water. The solubility of Ro 04-6790 (hydrochloride hydrate) in water is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Ro 04-6790 is an antagonist of the serotonin (5-HT) receptor subtype 5-HT_6 (K_i = 44.7 nM).[1] It is selective for 5-HT_6 receptors over a panel of 23 additional receptors at 10 µM. Ro 04-6790 inhibits 5-HT-induced cAMP production in HeLa cells expressing human 5-HT_6 (pA_2 = 6.75). *In vivo*, Ro 04-6790 (10 and 30 mg/kg) induces stretching and yawning behavior in rats. It reverses scopolamine-induced decreases in novel object discrimination in rats.[2] Ro 04-6790 (3, 10, and 30 mg/kg) also attenuates cue-induced cocaine-seeking behavior in rats.[3]

References

1. Sleight, A.J., Boess, F.G., Bös, M., *et al*. Characterization of Ro 04-6790 and Ro 63-0563: Potent and selective antagonists at human and rat 5-HT_6 receptors. *Br. J. Pharmacol.* **124(3)**, 556-562 (1998).
2. Woolley, M.L., Marsden, C.A., Sleight, A.J., *et al*. Reversal of a cholinergic-induced deficit in a rodent model of recognition memory by the selective 5-HT_6 receptor antagonist, Ro 04-6790. *Psychopharmacology (Berl)* **170(4)**, 358-367 (2003).
3. van Gaalen, M.M., Schetters, D., Schoffelmeer, A.N.M., *et al*. 5-HT_6 antagonism attenuates cue-induced relapse to cocaine seeking without affecting cocaine reinforcement. *Int. J. Neuropsychopharmacol.* **13(7)**, 961-965 (2010).

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