

Product Data Sheet

Product Name: 2-(Piperazin-1-yl)quinoline

Cat. No.: GF40253

Chemical Properties

Cas. No. 4774-24-7

Formula $C_{13}H_{15}N_3$

M.Wt 213.28

Solubility

Storage -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

Quipazine is a 5-HT agonist with a K_i value of 1.4 nM for displaces [3H]GR65630 from 5-HT3R in rat. Quipazine shows antiviral activity against SARS-CoV-2 with an EC_{50} of 31.64 μ M. Quipazine behaves as a 5-HT3R agonist in peripheral models. Quipazine can be used for neurological disease research.

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

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Quipazine shows binding efficacy to 5-HT₁ and 5-HT₂ with K_i values of 230 nM^[3].

Quipazine displaces [³H]GR65630 from 5-HT₃R in rat entorhinal cortex with a K_i value of 1.4 nM^[3].

Quipazine shows antagonistic properties on the rat vagus nerve with pIC₅₀ value of 6.1, 6.49 and 6.17 for 5-HT₂, 5-HT₁ and inhibition of 5-HT release^[4].

Quipazine (2.5, 5 and 7.5 mg/kg, one dose for once; i.p.) affects dietary self-selection of different macronutrient diets in male and female rats^[1].

[1]. Mok E, et al. Effect of quipazine, a selective 5-HT₃ agonist, on dietary self-selection of different macronutrient diets in male and female rats. *Appetite*. 2000 Jun;34(3):313-25.

[2]. Günther S, et al. X-ray screening identifies active site and allosteric inhibitors of SARS-CoV-2 main protease. *Science*. 2021 May 7;372(6542):642-646.

[3]. Glennon RA, et al. 5-HT₁ and 5-HT₂ binding characteristics of some quipazine analogues. *J Med Chem*. 1986 Nov;29(11):2375-80.

[4]. Ireland SJ, Tyers MB. Pharmacological characterization of 5-hydroxytryptamine-induced depolarization of the rat isolated vagus nerve. *Br J Pharmacol*. 1987 Jan;90(1):229-38.

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