

Product Data Sheet

Product Name: EGIS-7625 free base

Cat. No.: GC79255

Chemical Properties

Cas. No. 751462-86-9

Formula $C_{18}H_{22}N_4O_2$ M.Wt 326.39

Solubility DMSO: 4.17 mg/mL (12.78 mM; Need ultrasonic) 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

EGIS-7625 free base is an orally active and selective competitive antagonist of 5-HT_{2B} receptor, with

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a human K_i value of 1 nM. EGIS-7625 free base shows low affinity for 5-HT_{2A} and 5-HT_{2C} receptors. The pK_i values of EGIS-7625 free base for human 5-HT_{2B}, 5-HT_{2A} and 5-HT_{2C} are 9.0, 6.2 and 7.7, respectively. EGIS-7625 free base alleviates mCPP-induced hypoactivity [1].

In Vivo, EGIS-7625 (30 mg/kg; subcutaneous injection; single dose) free base does not antagonize mCPP-induced 5-HT_{2C} receptor-mediated feeding suppression in rats^[1]. EGIS-7625 (3-30 mg/kg; p.o.; single administration) free base antagonizes mCPP-induced 5-HT_{2C} receptor-mediated hypoactivity in rats at the highest dose of 30.0 mg/kg, while no significant effects are observed at lower doses^[1].

In Vitro, EGIS-7625 (1-10 nM) free base acts as a potent competitive antagonist of 5-HT_{2B} receptor-mediated contraction in rat fundus strips, with a pA_2 value of 9.4^[1]. EGIS-7625 (1-30 μ M; 30 minutes) free base acts as a weak competitive antagonist of 5-HT_{2A} receptor-mediated contraction in rabbit pulmonary artery strips, with a pA_2 value of 6.7^[1].

References:

[1]. Kovács A, et al. Effects of EGIS-7625, a selective and competitive 5-HT_{2B} receptor antagonist. Cardiovasc Drugs Ther. 2003;17(5-6):427-434.

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