

Product Data Sheet

Product Name: Pirlindole

Cat. No.: GC41251

Chemical Properties

Cas. No. 60762-57-4

SMILES CC1=CC=C(N2C3=C4CCCC3NCC2)C4=C1

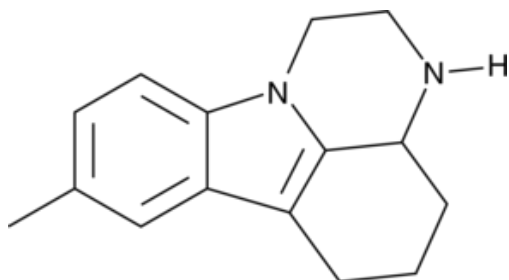
Formula C₁₅H₁₈N₂ M.Wt 226.3

Solubility DMF: 1 mg/ml, DMSO: 5 mg/ml 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

Pirlindole is a selective and reversible monoamine oxidase A (MAO-A) inhibitor (IC₅₀s = 250 and 34.2 nM for rat brain and heart MAO-A, respectively). It is selective for MAO-A over MAO-B (K_is = 52,100 and 59,900 nM, for rat brain and heart MAO-B, respectively). In rats, it reverses the depressive-like effects induced by chronic mild stress (CMS), increases proliferation of hippocampal neural progenitor cells, and reverses dendritic atrophy in granule neurons. Pirlindole is also an inhibitor of enterovirus-D68 and coxsackievirus B3 (CV-B3), inhibiting the genome replication phase of CV-B3 infection with an EC₅₀ value of 7.7 μM independent of MAO-A activity.

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

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