

Product Data Sheet

Product Name: (Rac)-Benpyrine

Cat. No.: GC18773

Chemical Properties

Cas. No. 1333714-43-4

SMILES O=C1N(CC2=CC=CC=C2)CC(NC3=C4N=CNC4=NC=N3)C1

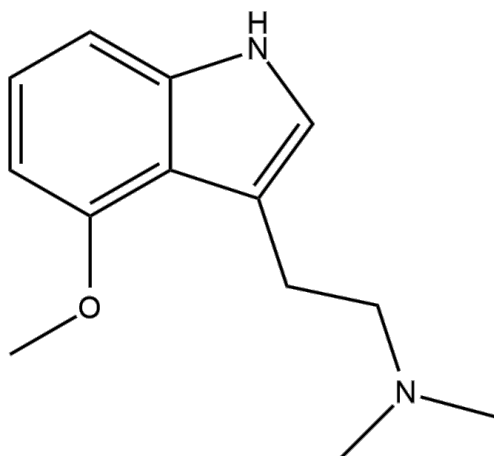
Formula $C_{16}H_{16}N_6O$ M.Wt 308.34

Solubility DMSO : 10 mg/mL (32.43 mM); ultrasonic and warming and heat to 60°C) Storage 4°C, protect from light

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

(Rac)-Benpyrine, a racemate of Benpyrine, is a potent and orally active TNF- α inhibitor. (Rac)-Benpyrine has the potential for TNF- α mediated inflammatory and autoimmune disease research[1].

(Rac)-Benpyrine (Compound 001; 5-10 μ M; 24 hours) treatment inhibits the expression level of TNF- α downstream pathway protein NF- κ B in the nucleus in RAW264.7 macrophages[1].

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

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(Rac)-Benpyrine (Compound 001; 25-50 mg/kg; oral gavage; daily; for 3 weeks; Kunming mice) treatment obviously reduces the inflammatory cytokines IFN- γ , IL-1 β and IL-6 in the blood serum, and the anti-inflammatory factor IL-10 is obviously increased, the foot swelling degree of the arthritis part is also obviously slowed down, and the weight index increase caused by the arthritis also has no obvious reduction[1].

Reference:

[1]. Hua Li, et al. Compound with TNF- α inhibitory activity and application. CN111320630A.

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