

Catalog	Unit
TBI4520-25MG	25 mg
TBI4520-100MG	100 mg

Product Details

Formal Name: 7-Methoxy-1-methyl-9H-pyrido[3,4-b]indole hydrochloride

Molecular Formula: C₁₃H₁₂N₂O·HCl

Formula Weight: 248.71

CAS Number: 343-27-1

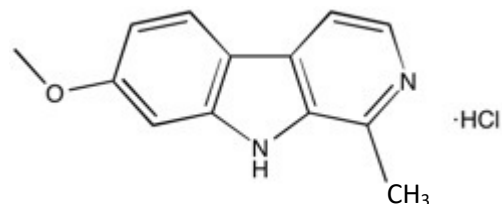
Purity: >98%

Formulation: powder

Solubility: Soluble in Water (up to 25 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

MAO-A and DYRK inhibitor

Functions

Selective, competitive, and reversible inhibitor of monoamine oxidase A (MAO-A IC₅₀ = 8 μM). Harmine is a potent and specific inhibitor of both the kinase activity and autophosphorylation of tyrosine during translation DYRK1A (IC₅₀'s: DYRKA1A = 33 nM; DYRKA1B = 166 nM; DYRK2 = 1.9 μM; DYRK4 = 80 μM). Inhibits self-renewal and promotes differentiation of glioblastoma stem-like cells(GSLC's) possibly via inhibition of Akt phosphorylation. Harmine has also been shown to possess antimicrobial, antifungal, antiplasmodial, antitumor, antioxidant, antimutagenic and antigenotoxic properties. Inhibits osteoclast differentiation and bone resorption via downregulation of c-Fos and NFATc1 induced by RANKL.

Application Procedures

First dissolved in Water (up to 25 mg/ml), then diluted to aqueous buffer. Solutions in distilled water may be stored at -20° for up to 3 months.

For research use only.