

Catalog	Unit
TBI4050-100MG	100 mg
TBI4050-500MG	500 mg

Product Details

Formal Name: N,N-Diethylaminoethyl-2,2-diphenylvalerate hydrochloride

Alternate Names: Proadifen

Molecular Formula: C₂₃H₃₁NO₂ · HCl

Formula Weight: 390.00

CAS Number: 62-68-0

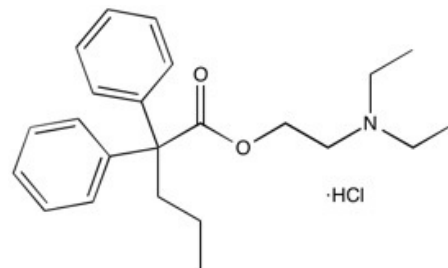
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 20 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

Cytochrome P450 inhibitor

Functions

Broad-spectrum cytochrome P450 monooxygenase inhibitor that also blocks the acetylcholine receptor (IC₅₀ = 19 μM). Inhibits nitric oxide synthase (NOS). Also inhibits glibenclamide-sensitive K⁺ channels (IC₅₀ = 9.8 μM) in *Xenopus* oocytes. Increases inflammatory cytokine expression in Müller glial cells and inhibits the excitability of rat 5-HT neurons.

Application Procedures

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

For research use only.