

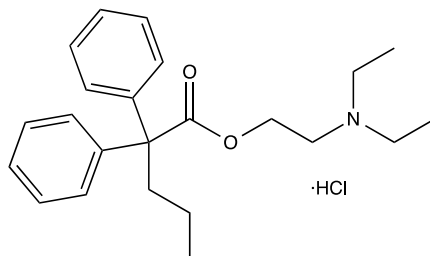
Catalog #10-4050

SKF-525A

62-68-0

Proadifen; N,N-Diethylaminoethyl 2,2-diphenylvalerate hydrochloride

Lot # FB1285



SKF-525A is a commonly used non-selective Cytochrome P450 inhibitor.¹ It is also a local anesthetic² acting via blockage of the acetylcholine receptor³ – it is a commonly used reagent to stabilize the desensitized state of muscle AChR⁴. SKF-525A also inhibits glibenclamide-sensitive K⁺ channels.⁵

- 1) Franklin and Hathaway (2008) *2-Diethylaminoethyl-2,2-diphenylvalerate-HCL (SKF525A) revisited: comparative cytochrome P450 inhibition in human liver microsomes by SKF525A, its metabolites, and SKF-acid and SKF-alcohol* Drug Metab.Dispos. **36** 2539
- 2) Suarez-Kurtz and Bianchi (1970) *Sites of action of SKF-525A in nerve and muscle* J.Pharmacol.Exp.Ther. **172** 33
- 3) Spitzmaul *et al.* (2009) *The local anesthetics proadifen and adiphenine inhibit nicotinic receptors by different molecular mechanisms*; Br.J.Pharmacol. **157** 804
- 4) Prince and Sine *et al.* (1999) *Acetylcholine and epibatidine binding to muscle acetylcholine receptors distinguish between concerted and uncoupled models*; J.Biol.Chem. **274** 19623
- 5) Sakust and Yoneda (1994) *Inhibition by SKF 525A and quinacrine of endogenous glibenclamide-sensitive K⁺ channels in follicle-enclosed Xenopus oocytes*; Eur.J.Pharmacol. **252** 117

PHYSICAL DATA

Molecular Weight:	389.96
Molecular Formula:	C ₂₃ H ₃₁ NO ₂ ·HCl
Purity:	>98%
	NMR: (Conforms)
Solubility:	DMSO (20 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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