



>>Entry Name: Proadifen, INN

Synonym(s): 2-(Diethylamino)ethyl α -phenyl- α -propylbenzeneacetate, 9Cl. 2-(Diethylamino)ethyl 2,2-diphenylvalerate, 8Cl. Propyladiphenine

CAS Registry Number: 302-33-0

$\text{H}_3\text{CCH}_2\text{CH}_2\text{CPh}_2\text{COOCH}_2\text{CH}_2\text{NEt}_2$

Molecular Formula: $\text{C}_{23}\text{H}_{31}\text{NO}_2$

Molecular Weight: 353.503

Accurate Mass: 353.235479

Percentage Composition: C 78.15%; H 8.84%; N 3.96%; O 9.05%

Use/Importance: Non-specific cytochrome P-450 inhibitor. Inhibitor of drug metabolism. Freq. used in metabolic studies

Development Status: Never marketed

>>Derivative: Hydrochloride

Synonym(s): Proadifen hydrochloride, USAN. NSC 39690. RP 5171. SKF 525A. U 5446

CAS Registry Number: 62-68-0

Physical Description: Lustrous cryst. (Me_2CO /petrol)

Melting Point: Mp 122-123° (119-121°)

Sigma: P1061

References:

Craig, P.N. *et al.*, *J.A.C.S.*, 1951, **73**, 1339, (*synth*)

Carrano, R.A. *et al.*, *J. Pharm. Sci.*, 1966, **55**, 563, (*pharmacol*)

Mitoma, C. *et al.*, *Biochem. Pharmacol.*, 1968, **17**, 1377, (*props*)

Peisker, K., *Z. Chem.*, 1973, **13**, 344, (*synth*)

Testa, B. *et al.*, *Drug Metab. Rev.*, 1981, **12**, 1, (*rev*)

Galeotti, T. *et al.*, *Biochem. Pharmacol.*, 1983, **32**, 3285

Lu, M.C. *et al.*, *J. Med. Chem.*, 1987, **30**, 273, (*synth*)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 1406

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