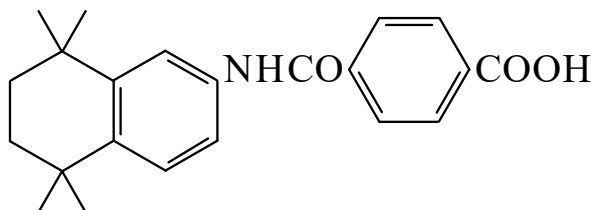




>>Entry Name: Tamibarotene, INN

Synonym(s): 4-[[[(5,6,7,8-Tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)amino]carbonyl]benzoic acid, 9Cl. Terephthalic acid mono-5,5,8,8-tetramethyl-5,6,7,8-tetrahydro-2-naphthylamide. Am 80



CAS Registry Number: 94497-51-5

Molecular Formula: C₂₂H₂₅NO₃

Molecular Weight: 351.444

Accurate Mass: 351.183444

Percentage Composition: C 75.19%; H 7.17%; N 3.99%; O 13.66%

Use/Importance: Inducer of HL-60 myelogenous leukaemia cell differentiation. Inhibitor of ornithine decarboxylase. Antineoplastic agent. Angiogenesis and keratogenesis inhibitor

Physical Description: Cryst. (EtOAc/hexane)

Melting Point: Mp 205.5-206°. Mp 231-232°

Calculated Log P Data: Log P 6.38 (calc)

>>Derivative: NH₄ salt

CAS Registry Number: 102121-57-3

Melting Point: Mp 145-146°

>>Derivative: Me ester

Synonym(s): Am 81

CAS Registry Number: 94497-53-7

Molecular Formula: C₂₃H₂₇NO₃

Molecular Weight: 365.471

Accurate Mass: 365.199094

Percentage Composition: C 75.59%; H 7.45%; N 3.83%; O 13.13%

Physical Description: Needles (CH₂Cl₂/hexane)

Melting Point: Mp 211-212°

References:

- Kagechika, H. *et al.*, *Chem. Pharm. Bull.*, 1984, **32**, 4209, (*synth, pharmacol*)
Eur. Pat., 1986, *Sumitomo Pharm; Yoshitomi Pharm*, 170 105; *CA*, **104**, 206948q, (*synth*)
Hashimoto, Y. *et al.*, *Chem. Pharm. Bull.*, 1987, **35**, 3190, (*pharmacol*)
Kagechika, H. *et al.*, *J. Med. Chem.*, 1988, **31**, 2182; 1989, **32**, 2583, (*synth, ir, pmr, pharmacol, sar*)
Toriumi, Y. *et al.*, *J.O.C.*, 1990, **55**, 259, (*cryst struct*)
Koizumi, H. *et al.*, *J. Dermatol. Sci.*, 1992, **3**, 97, (*pharmacol*)
Oikawa, T. *et al.*, *Eur. J. Pharmacol.*, 1993, **249**, 113, (*pharmacol*)
Hashimoto, S. *et al.*, *Xenobiotica*, 1994, **24**, 1177, (*metab*)