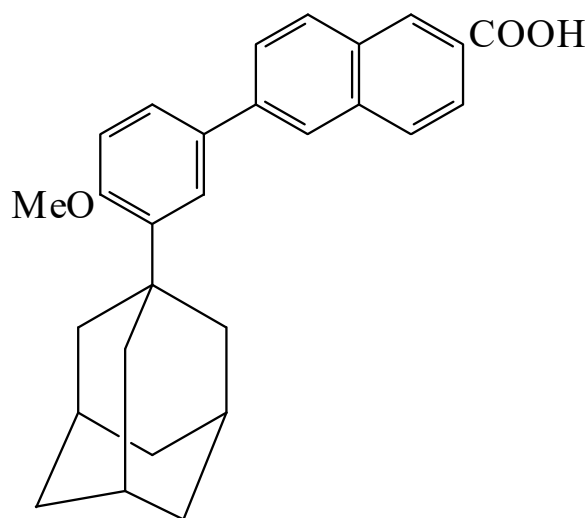




>>Entry Name: Adapalene, BAN, INN, USAN

Synonym(s): 6-(4-Methoxy-3-tricyclo[3.3.1.1^{3,7}]dec-1-ylphenyl)-2-naphthalenecarboxylic acid, 9CI. 6-[3-(1-Adamantyl)-4-methoxyphenyl]-2-naphthoic acid. Differene. CD 271



CAS Registry Number: 106685-40-9

Related CAS Registry Numbers(s): 135965-01-4 135965-04-7

Molecular Formula: C₂₈H₂₈O₃

Molecular Weight: 412.527

Accurate Mass: 412.203845

Percentage Composition: C 81.52%; H 6.84%; O 11.64%

Use/Importance: Used in the treatment of acne. Retinoid-like modulator of cell differentiation. Shows potent antiinflammatory activity

Physical Description: Cryst. (THF/EtOAc)

Development Status: Launched 1995 (France)

Melting Point: Mp 325-327°

Calculated Log P Data: Log P 8.11 (uncertain value) (calc)

>>Derivative: Me ester

CAS Registry Number: 106685-41-0

Molecular Formula: C₂₉H₃₀O₃

Molecular Weight: 426.554

Accurate Mass: 426.219495

Percentage Composition: C 81.66%; H 7.09%; O 11.25%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 222-223°

References:

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Jamouille, J.C. *et al.*, *J. Invest. Dermatol.*, 1990, **94**, 731, (*pharmacol*)
Bernard, F. *et al.*, *Arch. Dermatol. Res.*, 1991, **283**, 100, (*pharmacol*)
Martindale, The Extra Pharmacopoeia, 30th edn., *Pharmaceutical Press*, 1993, 756
Bernard, R.A., *Skin Pharmacol., Suppl.* 1, 1993, **6**, 61, (*rev*)
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