

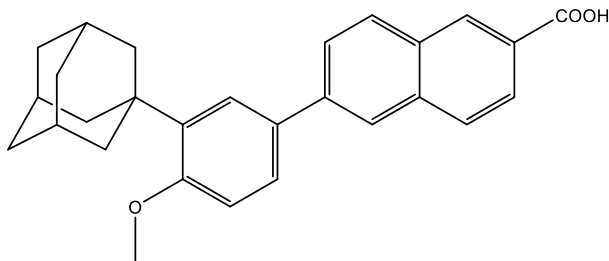
Catalog # 10-1011

Adapalene

CAS# 106685-40-9

6-[3-(1-Adamantyl)-4-methoxyphenyl]-2-naphthoic acid; CD271

Lot # X101015



Stable analog of retinoic acid that acts as a selective agonist for RAR β and RAR γ . Also inhibits proliferation and induces apoptosis in colorectal cancer cells in culture. In clinical use for the treatment of acne.

- 1) Michel *et al.* (1998), *Pharmacology of Adapalene*; Br. J. Dermatol., **139 Suppl. 52**; 3
- 2) Ocker *et al.* (2003), *The synthetic retinoid adapalene inhibits proliferation and induces apoptosis in colorectal cancer cells on vitro*; Int. J. Cancer, **107** 453
- 3) Milikan *et al.* (2000), *Adapalene: an update on newer comparative studies between the various retinoids* ; Int. J. Dermatol., **39** 784
- 4) Bernard *et al.* (1993), *Adapalene, a new chemical entity with retinoid activity* ; Skin Pharmacol., **6** 61

PHYSICAL DATA

Molecular Weight: 412.53
Molecular Formula: C₂₈H₂₈O₃
Purity: 98% by TLC [5% Methanol/methylene chloride; R_f = 0.32]
NMR: (Conforms)
Solubility: DMSO (up to 3 mg/ml), or DMF (up to 6 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at room temperature for up to 1 year from the date of purchase.
Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

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