

# Adapalene

Catalog No: tcsc1789



## Available Sizes

**Size:** 50mg

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

106685-40-9

**Formula:**

$C_{28}H_{28}O_3$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

RAR/RXR

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

CD271

**Observed Molecular Weight:**

412.52

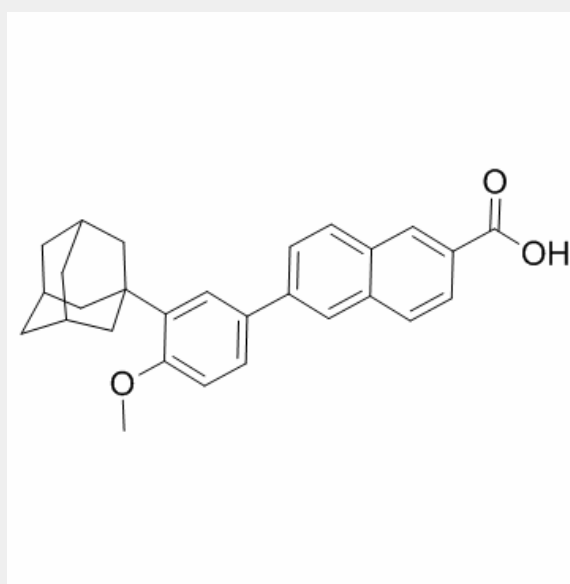
## Product Description

Adapalene(CD-271; Differin), a synthetic retinoid, is a retinoic acid receptor agonist (RAR).

Target: Retinoic acid receptor agonist (RAR)

Adapalene is a third-generation topical retinoid primarily used in the treatment of mild-moderate acne and is also used (off-label) to treat keratosis pilaris as well as other skin conditions. Adapalene is possibly more effective than tretinoin 0.025% gel in the treatment of acne vulgaris [1].

Thirty-six rats of either sex were divided into six groups (two control groups, and an etodolac, indomethacin, tretinoin and adapalene group) of six animals each. Each group was given different drugs or chemicals. The inhibitory activities of the drugs were determined on carrageenan-induced rat-paw oedema. The inhibition rate (53.48%) in the tretinoin group was found to be higher than adapalene and controls (P



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