

Product Name: HX 531

Catalog No.: 3912

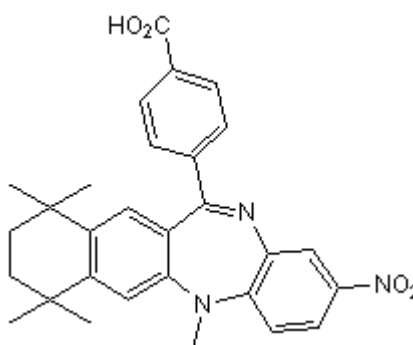
Batch No.: 3

CAS Number: 188844-34-0

IUPAC Name: 4-(7,8,9,10-Tetrahydro-5,7,7,10,10-pentamethyl-2-nitro-5*H*-benzo[*b*]naphtho[2,3-*e*][1,4]-diazepin-12-yl)-benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₉N₃O₄
Batch Molecular Weight: 483.56
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Chloroform:Methanol [9:1])
HPLC: Shows >99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.03	6.04	8.69
Found	71.65	6.11	8.63

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Description:

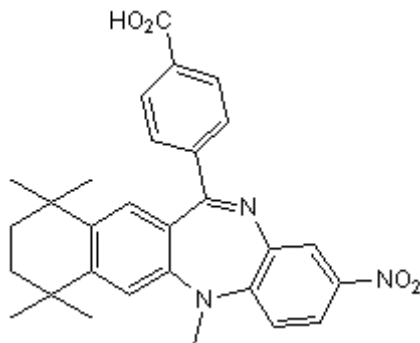
Potent RXR antagonist (IC₅₀ = 18 nM). Promotes white and brown pre-adipocyte differentiation into white adipocytes. Also inhibits bexarotene-induced brown adipogenic reprogramming of myoblasts.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₉H₂₉N₃O₄
 Batch Molecular Weight: 483.56
 Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

- Nie et al** (2017) Brown adipogenic reprogramming induced by a small molecule. *Cell Rep.* **18** 624. PMID: 28099842.
Suzuki et al (2009) Docosahexaenoic acid induces adipose differentiation-related protein through activation of retinoid X receptor in human choriocarcinoma BeWo cells. *Biol.Pharm.Bull.* **32** 1177. PMID: 19571381.
Alique et al (2006) Vitamin A active metabolite, all-trans retinoic acid, induces spinal cord sensitization. II. Effects after intrathecal administration. *Br.J.Pharmacol.* **149** 65. PMID: 16847438.
Ebisawa et al (1999) Retinoid X receptor-antagonistic diazepinylbenzoic acids. *Chem.Pharm.Bull.* **47** 1778. PMID: 10748721.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold under licence.

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