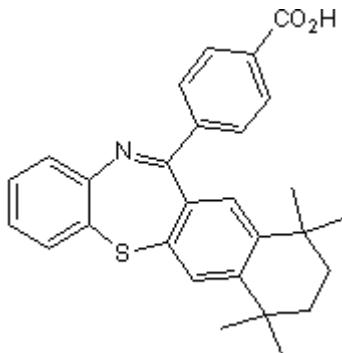


Certificate of Analysiswww.tocris.com**Product Name:** HX 630**Catalog No.:** 3913**Batch No.:** 1

CAS Number: 188844-52-2

IUPAC Name: 4-(7,8,9,10-Tetrahydro-7,7,10,10-tetramethylbenzo[*b*]naphtho[2,3-*f*][1,4]thiazepin-12-yl-benzoic acid**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₈H₂₇NO₂S**Batch Molecular Weight:** 441.58**Physical Appearance:** Yellow solid**Solubility:** DMSO to 50 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.5 (Chloroform:Methanol [95:5])**HPLC:** Shows 98.4% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 76.16 6.16 3.17

Found 75.88 6.23 3.17

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-technne.com

info@bio-technne.com

techsupport@bio-technne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-technne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of Worldwww.tocris.com/distributors

Tel: +1 612 379 2956

Product Name: HX 630**Catalog No.:** 3913**Batch No.:** 1

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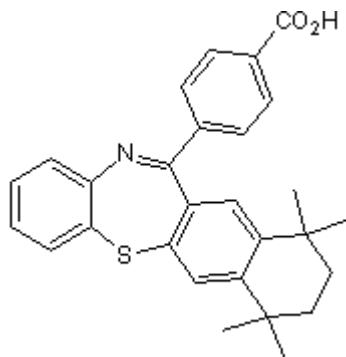
IUPAC Name: 4-(7,8,9,10-Tetrahydro-7,7,10,10-tetramethylbenzo[*b*]naphtho[2,3-*f*][1,4]thiazepin-12-yl-benzoic acid**Description:**

RXR agonist. Acts as a retinoid synergist; enhances the potency of AM 80 (Cat. No. 3507) in a HL-60 cell differentiation assay.

Physical and Chemical Properties:Batch Molecular Formula: C₂₈H₂₇NO₂S

Batch Molecular Weight: 441.58

Physical Appearance: Yellow solid

Minimum Purity: >98%**Batch Molecular Structure:****Storage:** Store at -20°C**Solubility & Usage Info:**

DMSO to 50 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.

References:

Umemiya et al (1997) Regulation of retinoidal actions by diazepinylbenzoic acids. Retinoid synergists which activate the RXR-RAR heterodimers. *J.Med.Chem.* **40** 4222. PMID: 9435893.

Ohashi et al (2002) Effect of natural and synthetic retinoids on the proliferation and differentiation of three canine melanoma cell lines. *J.Vet.Med.Sci.* **64** 169. PMID: 11913557.

Ishida et al (2003) Clinically potential subclasses of retinoid synergists revealed by gene expression profiling. *Mol.Cancer Ther.* **2** 49. PMID: 12533672.

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bio-technne.com

info@bio-technne.com

techsupport@bio-technne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-technne.com

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Europe Middle East Africa

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Tel: +1 612 379 2956