

Product Name: Fenretinide

Catalog No.: 1396

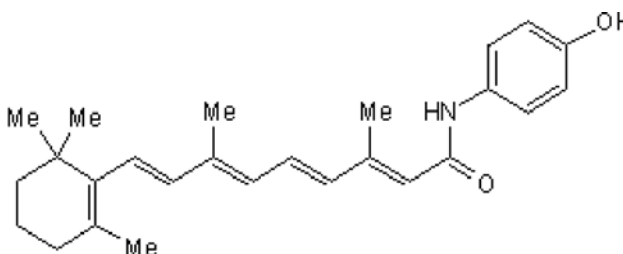
Batch No.: 8

CAS Number: 65646-68-6

IUPAC Name: *N*-(4-Hydroxyphenyl)retinamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₃NO₂
Batch Molecular Weight: 391.55
Physical Appearance: Yellow solid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.76	8.5	3.58
Found	79.4	8.42	3.73

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

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Description:

Synthetic retinoid agonist. Antiproliferative, antioxidant and anticancer agent with a long half-life in vivo. Apoptotic effects appear to be mediated by a mechanism distinct from that of 'classical' retinoids.

Physical and Chemical Properties:

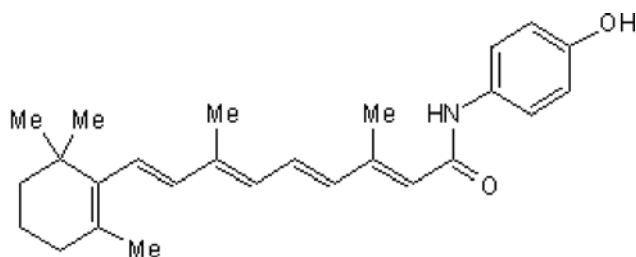
Batch Molecular Formula: C₂₆H₃₃NO₂

Batch Molecular Weight: 391.55

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 100 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:

Le Doze et al (2000) Pharmacokinetics of all-*trans* retinoic acid, 13-*cis* retinoic acid, and fenretinide in plasma and brain of rat. *Drug Metab.Dispos.* **28** 205. PMID: 10640519.

Takahashi (2000) Antioxidant properties of *N*-(4-hydroxyphenyl)retinamide (fenretinide). *Biol.Pharm.Bull.* **23** 222. PMID: 10706389.

Ulukaya and Wood (1999) Fenretinide and its relation to cancer. *Cancer Treat.Rev.* **25** 229. PMID: 10448131.

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