

Certificate of Analysis

Product Name: DY131

Catalog No.: 2266

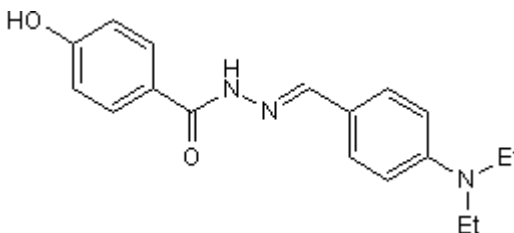
Batch No.: 1

CAS Number: 95167-41-2

IUPAC Name: *N*-(4-(Diethylaminobenzylidene))-*N'*-(4-hydroxybenzoyl)-hydrazine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₁N₃O₂
Batch Molecular Weight: 311.38
Physical Appearance: Yellow solid
Solubility: ethanol to 10 mM
DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 69.43 | 6.8 | 13.49 |
| Found | 69.29 | 6.81 | 13.52 |

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

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Description:

Novel selective agonist at estrogen-related receptors ERR β and ERR γ . Displays minimal activity at ERR α , ER α and ER β at concentrations up to 30 μ M.

Physical and Chemical Properties:

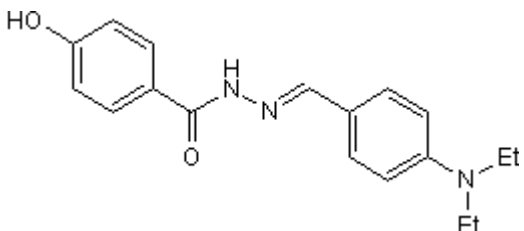
Batch Molecular Formula: C₁₈H₂₁N₃O₂

Batch Molecular Weight: 311.38

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 10 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:

Yu and Forman (2005) Identification of an agonist ligand for estrogen-related receptors ERR β / γ . *Bioorg.Med.Chem.Lett.* **15** 1311. PMID: 15713377.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956