

Product Name: SLU-PP-332

Catalog No.: 8112

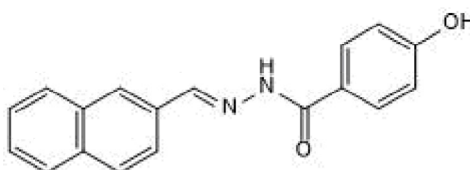
Batch No.: 1

CAS Number: 303760-60-3

IUPAC Name: (E)-4-Hydroxy-N'-(naphthalen-2-ylmethylene)benzohydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄N₂O₂
Batch Molecular Weight: 290.32
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.47	4.86	9.65
Found	73.35	4.74	9.46

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

Product Name: SLU-PP-332

Catalog No.: 8112

1

CAS Number: 303760-60-3

IUPAC Name: (E)-4-Hydroxy-N'-(naphthalen-2-ylmethylene)benzohydrazide

Description:

SLU-PP-332 is a potent and selective pan estrogen related receptor (ERR) agonist (EC₅₀ values are 98 nM, 230 nM and 430 nM for ERR α , ERR β and ERR γ respectively). In a mouse model of metabolic syndrome SLU-PP-332 increases energy expenditure and fatty acid oxidation, decreases fat mass, and improves insulin sensitivity. Also increases mitochondrial respiration in vitro.

Physical and Chemical Properties:

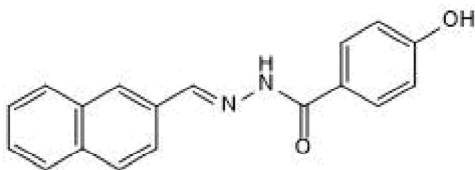
Batch Molecular Formula: C₁₈H₁₄N₂O₂

Batch Molecular Weight: 290.32

Physical Appearance: White crystalline solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



References:

Billon et al (2024) A synthetic ERR agonist alleviates metabolic syndrome. *J.Pharmacol.Exp.Ther.* **388** 232. PMID: 37739806.

Billon et al (2023) Synthetic ERR α / β / γ agonist induces an ERR α -dependent acute aerobic exercise response and enhances exercise capacity. *ACS Chem.Biol.* **18** 756. PMID: 36988910.

Storage: Store at -20°C

Solubility & Usage Info:

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

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

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