

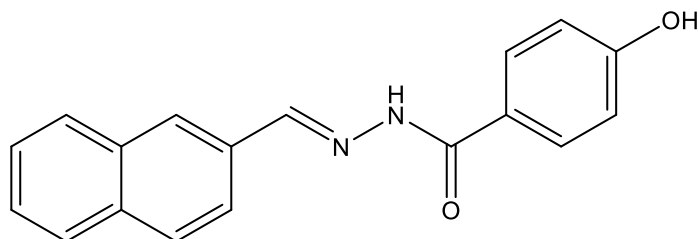
**Catalog # 10-3948**

**SLU-PP-332**

CAS# 303760-60-3

(E)-4-Hydroxy-N'-(naphthalen-2-ylmethylene)benzohydrazide; 4-Hydroxybenzoic acid 2-(2-naphthalenylmethylene)hydrazide; SR9861

Lot # FBA8218



SLU-PP-332 is a pan-agonist of the estrogen receptor-related receptors ( $EC_{50}$ 's cell-based cotransfection/reporter assay:  $ERR\alpha = 98$  nM,  $ERR\beta = 230$  nM,  $ERR\gamma = 430$  nM) with highest potency for  $ERR\alpha$ .<sup>1,2</sup> SLU-PP-332 increased mitochondrial function and cellular respiration in a skeletal muscle cell line.<sup>2</sup> It also increased fast oxidative skeletal muscle fibers (Type IIa) and exercise endurance in mice in an  $ERR\alpha$ -specific manner. SLU-PP-332 activates an acute aerobic exercise genetic response *via* inducing the expression of DDIT4.<sup>2</sup>

- 1) Lin *et al.* (2018), *Design, synthesis, and evaluation of simple phenol amides as  $ERR\gamma$  agonists*; *Bioorg. Med. Chem. Lett.*, **28** 1313
- 2) Billon *et al.* (2023), *Synthetic  $ERR\alpha/\beta/\gamma$  Agonist Induces an  $ERR\alpha$ -Dependent Acute Aerobic Exercise Response and Enhances Exercise Capacity*; *ACS Chem. Biol.*, **18** 756

### PHYSICAL DATA

Molecular Weight:	290.32
Molecular Formula:	$C_{18}H_{14}N_2O_2$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (75 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at $-20^{\circ}C$ for up to 2 years from the date of purchase. Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 2 months.

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