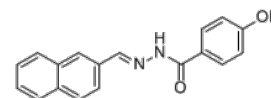


**Product Name** : SLU-PP-332  
**Cat. No.** : PC-20416  
**CAS No.** : 303760-60-3  
**Molecular Formula** : C<sub>18</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 290.32  
**Target** : Estrogen Receptor/ERR  
**Solubility** : 10 mM in DMSO



## Biological Activity

SLU-PP-332 is a potent, selective **pan ERR $\alpha$ / $\beta$ / $\gamma$**  agonist with EC<sub>50</sub> of 98, 230 and 430 nM for ERR $\alpha$ , ERR $\beta$  and ERR $\gamma$ , in full-length ERR cell-based cotransfection/reporter assays.

SLU-PP-332 displays a degree of ERR $\alpha$  selectivity with 4.4-fold selectivity for ERR $\alpha$  over ERR $\gamma$  and 2.3-fold ERR $\alpha$  over ERR $\beta$ . SLU-PP-332 also displays activity at all ERRs in a Gal4-ERR LBD chimeric cotransfection assay, SLU-PP-332 is more potent at ERR $\alpha$  than ERR $\beta$  and ERR $\gamma$ .

SLU-PP-332 is selective for the ERRs, does not alter the activity of either ER $\alpha$  or ER $\beta$ , or other nuclear receptors in cotransfection assays.

SLU-PP-332 (0.1-5  $\mu$ M) increases the expression of an ERR target gene (pyruvate dehydrogenase kinase 4 (Pdk4)) and enhances mitochondrial respiration in C2C12 myocytes.

SLU-PP-332 (50 mg/kg, b.i.d, i.p.) increases oxidative fibers in skeletal muscle and improves exercise endurance in C57BL/6J mice.

SLU-PP-332 induces acute aerobic exercise genetic program in skeletal muscles, induces Ddit4 expression and enhances exercise endurance in an ERR $\alpha$ -dependent manner.

## References

Billon C, et al. *ACS Chem Biol*. 2023 Mar 29. doi: 10.1021/acscchembio.2c00720.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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