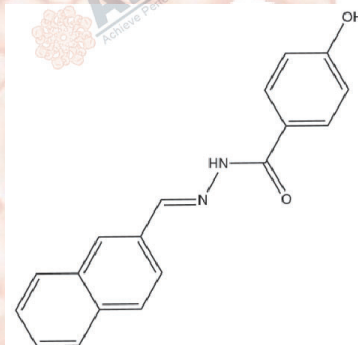


Product Data Sheet

SLU-PP-332

Cat. No.:	BA9214
CAS No.:	303760-60-3
Formula:	C ₁₈ H ₁₄ N ₂ O ₂
M.Wt:	290.32
Synonyms:	/
Target:	ERR (Estrogen-related receptors)
Pathway:	Estrogen Receptor/ERR
Storage:	-20°C (Powder)



Solvent & Solubility

≥50.8 mg/mL in DMSO; ≥2.39 mg/mL in EtOH with gentle warming and ultrasonic; insoluble in H₂O

In Vitro

	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
Preparing Stock Solutions		1 mM	3.4445 mL	17.2224 mL	34.4447 mL
		5 mM	0.6889 mL	3.4445 mL	6.8889 mL
		10 mM	0.3444 mL	1.7222 mL	3.4445 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

SLU-PP-332 is a pan-Estrogen Receptor/ERR agonist with EC₅₀ values of 98, 230 and 430 nM for ERRα, ERRβ and ERRγ, respectively. SLUPP-332 enhances mitochondrial function and cellular respiration in skeletal muscle cell lines. SLU-PP-332 has the potential to study metabolic diseases as well as improve muscle function [1].

IC₅₀ & Target

ERRα: 98 nM. ERRβ: 230 nM. ERRγ: 430 nM.

In Vitro

Cell Viability Assay [1]

Cell Line:	C2C12 cells
Preparation method:	0-5 μM
Reacting conditions:	Incubation Time: 24 h

In Vivo	Applications:	C2C12 Cells were treated with SLU-PP-332 or DMSO (10 μ M). After 24 h of treatment, RNA was extracted for real-time PCR by Invitrogen Purelink RNA Mini Kit (Invitrogen). All groups were tested in triplicate.
	Animal experiment [1]	
	Animal models:	8-10 male C57BL/6J mice
	Dosage form:	50 mg/kg
	Applications:	i.p., a single dose for 28 or 12 days
	Preparation method:	For all experiments, 8–10 male C57BL6/J mice per group (12 weeks of age for chow) were administered a dose of SLU-PP-332 50 mg/kg (i.p., b.i.d.) or vehicle for 28 or 12 days. At termination of the experiment, tissues were collected for gene expression analysis by real-time qPCR using methods previously described. Food intake and body weight were monitored daily in these experiments, and body composition was measured prior to initiation and termination of the experiments by NMR (Bruker BioSpin LF50). Plasma was collected for triglyceride and cholesterol measurements. All b.i.d. dosing was performed, with dosing occurring at CT0 and CT12.
	Other notes:	The technical data provided above is for reference only.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Billon C, et al. Synthetic $ERR\alpha/\beta/\gamma$ Agonist Induces an $ERR\alpha$ -Dependent Acute Aerobic Exercise Response and Enhances Exercise Capacity. ACS Chem Biol. 2023 Apr 21;18(4):756-771.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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