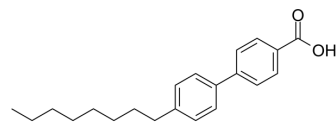


## AC-55649

<b>Cat. No.:</b>	HY-108526		
<b>CAS No.:</b>	59662-49-6		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>26</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	310.43		
<b>Target:</b>	RAR/RXR; Autophagy		
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Autophagy		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (322.13 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	3.2213 mL	16.1067 mL	32.2134 mL
	<b>5 mM</b>	0.6443 mL	3.2213 mL	6.4427 mL
	<b>10 mM</b>	0.3221 mL	1.6107 mL	3.2213 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.05 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	AC-55649 is a potent, highly isoform-selective agonist of human RARβ2 receptor, with a pEC <sub>50</sub> of 6.9.
<b>IC<sub>50</sub> &amp; Target</b>	AC-55649 is a potent, highly isoform-selective agonist of human RARβ2 receptor, with a pEC <sub>50</sub> of 6.9.
<b>In Vitro</b>	AC-55649 is a potent, highly isoform-selective agonist at the human RARβ2 receptor, with a pEC <sub>50</sub> of 6.9 <sup>[1]</sup> . AC-55649 is a potent and selective activator of RARβ2 transcriptional activity <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Lund BW, et al. Discovery of a potent, orally available, and isoform-selective retinoic acid beta2 receptor agonist. J Med Chem. 2005 Dec 1;48(24):7517-9.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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