

AC-55649

## Chemical Properties

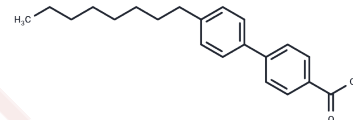
CAS No. : 59662-49-6

Formula: C<sub>21</sub>H<sub>26</sub>O<sub>2</sub>

Molecular Weight: 310.43

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	AC-55649 is a potent and highly isoform-selective agonist of the human RARβ2 receptor, characterized by a pEC <sub>50</sub> of 6.9.
Targets(IC <sub>50</sub> )	Retinoid Receptor, Autophagy
In vitro	AC-55649 is a potent and selective activator of RARβ2 transcriptional activity[2]. AC-55649 is a potent, highly isoform-selective agonist at the human RARβ2 receptor, with a pEC <sub>50</sub> of 6.9[1].

## Solubility Information

Solubility	DMSO: 90 mg/mL (289.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (10.63 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	3.2213 mL	16.1067 mL	32.2134 mL
5 mM	0.6443 mL	3.2213 mL	6.4427 mL
10 mM	0.3221 mL	1.6107 mL	3.2213 mL
50 mM	0.0644 mL	0.3221 mL	0.6443 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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.

Piu F, et al. Identification of novel subtype selective RAR agonists. Biochem Pharmacol. 2005 Dec 19;71(1-2):156-62.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481