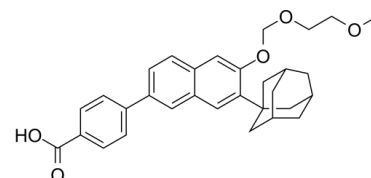


## Data Sheet

<b>Product Name:</b>	CD2665
<b>Cat. No.:</b>	CS-0028470
<b>CAS No.:</b>	170355-78-9
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>34</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	486.60
<b>Target:</b>	RAR/RXR
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Solubility:</b>	10 mM in DMSO



### BIOLOGICAL ACTIVITY:

CD2665 is an orally active and selective **RAR-β,γ** antagonist, with **K<sub>d</sub>** values of 306 nM, 110 nM for RAR-β and RAR-γ, respectively<sup>[1]</sup><sup>[3]</sup>. IC<sub>50</sub> & Target: Ki: 110 nM (RARγ), 306 nM (RARβ)<sup>[1]</sup> **In Vitro:** CD2665 (100 nM; 9 days; 3T3 cells) has significant effects on cell growth and differentiation<sup>[1]</sup>. **In Vivo:** CD2665 (0.6 mg/kg; Subcutaneous injection; daily, for 22 days) completely inhibits the overexpression of RARβ mRNA in the brain of alcohol treated mice<sup>[2]</sup>.

CD2665 is a selective retinoid antagonist and elicits the expected maturation delay and growth plate expansion<sup>[3]</sup>.

### References:

- [1]. Kim MJ, et al. The role of specific retinoid receptors in sebocyte growth and differentiation in culture. *J Invest Dermatol.* 2000 Feb;114(2):349-53.
- [2]. Alfos S, Boucheron C, et al. A retinoic acid receptor antagonist suppresses brain retinoic acid receptor overexpression and reverses a working memory deficit induced by chronic ethanol consumption in mice. *Alcohol Clin Exp Res.* 2001 Oct;25(10):1506-14.
- [3]. Koyama E, et al. Premature Growth Plate Closure Caused by a Hedgehog Cancer Drug Is Preventable by Co-Administration of a Retinoid Antagonist in Mice. *J Bone Miner Res.* 2021 Jul;36(7):1387-1402.

### CAIndexNames:

Benzoic acid, 4-[6-[(2-methoxyethoxy)methoxy]-7-tricyclo[3.3.1.1<sup>3,7</sup>]dec-1-yl-2-naphthalenyl]-

### SMILES:

COCCOCOC1=CC2=CC=C(C3=CC=C(C(O)=O)C=C3)C=C2C=C1C45C[C@H](C6)C[C@H](C[C@H]6C5)C4

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

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