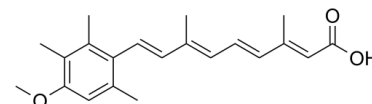


## Data Sheet

<b>Product Name:</b>	Acitretin
<b>Cat. No.:</b>	CS-1855
<b>CAS No.:</b>	55079-83-9
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>26</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	326.43
<b>Target:</b>	Apoptosis; Autophagy; RAR/RXR
<b>Pathway:</b>	Apoptosis; Autophagy; Metabolic Enzyme/Protease
<b>Solubility:</b>	H <sub>2</sub> O : 0.67 mg/mL (2.05 mM; Need ultrasonic); DMSO : 20 mg/mL (61.27 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

Acitretin (Ro 10-1670) is a second-generation, systemic retinoid that has been used in the treatment of psoriasis. Acitretin also can be used for the research of Alzheimer's disease<sup>[1][2][3]</sup>. **In Vivo:** Acitretin (10 mg/kg; i.p. for 7 days) increases IL-6 in the central nervous system of Alzheimer's disease model mice<sup>[3]</sup>.

### References:

- [1]. Lee CS, et al. A review of acitretin, a systemic retinoid for the treatment of psoriasis. *Expert Opin Pharmacother.* 2005 Aug;6(10):1725-34.
- [2]. Sengör B, et al. Effects of acitretin on spermatogenesis of rats. *J Eur Acad Dermatol Venereol.* 2006 Jul;20(6):689-92.
- [3]. Guilherme MDS, et, al. The Synthetic Retinoid Acitretin Increases IL-6 in the Central Nervous System of Alzheimer Disease Model Mice and Human Patients. *Front Aging Neurosci.* 2019 Jul 23;11:182.

### CAIndexNames:

2,4,6,8-Nonatetraenoic acid, 9-(4-methoxy-2,3,6-trimethylphenyl)-3,7-dimethyl-, (2E,4E,6E,8E)-

### SMILES:

CC(/C=C/C(C(C)=CC(OC)=C1C)=C1C)=C\C=C\C(C(C)=C\C(O)=O

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

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