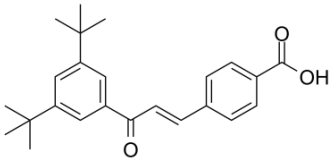
Ch55

Cat. No.:	HY-107397
CAS No.:	110368-33-7
Molecular Formula:	$C_{24}H_{28}O_3$
Molecular Weight:	364.48
Target:	RAR/RXR
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Ch55 is a potent synthetic retinoid. Ch55 binds to RAR-α and RAR-β receptors with high affinity. Ch55 displays low affinity for cellular retinoic acid binding protein (CRABP). Ch55 is a potent inducer of the differentiation of HL60 cells with an EC_{50} of 200 nM. Ch55 can be used for cancer research[1][2].
IC_{50} & Target	RARα RARβ
In Vitro	Ch55 inhibits squamous cell differentiation of rabbit tracheal epithelial cells by inhibiting type I transglutaminase activity (EC_{50} = 0.02 nM) and increasing cholesterol sulfate levels (EC_{50} = 0.03 nM). Ch55 also induce differentiation of embryonic carcinoma F9 cells and melanoma S91 cells (EC_{50}s = 0.26 and 0.5 nM, respectively), and inhibits the induction of ornithine decarboxylase activity in 3T6 fibroblasts (EC_{50} = 1 nM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jetten AM, et al. New benzoic acid derivatives with retinoid activity: lack of direct correlation between biological activity and binding to cellular retinoic acid binding protein. Cancer Res. 1987 Jul 1;47(13):3523-7.

[2]. Takahashi N, et al. Induction of differentiation and covalent binding to proteins by the synthetic retinoids Ch55 and Am80. Arch Biochem Biophys. 1994 Oct;314(1):82-9.

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