# MM11253

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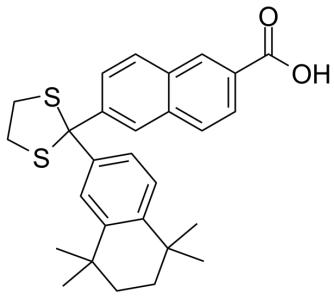
|---|---|
| **Cat. No.:** | HY-108530 |
| **CAS No.:** | 345952-44-5 |
| **Molecular Formula:** | $C_{28}H_{30}O_2S_2$ |
| **Molecular Weight:** | 462.67 |
| **Target:** | RAR/RXR |
| **Pathway:** | Metabolic Enzyme/Protease |
| **Storage:** | Powder -20°C 3 years<br>In solvent -80°C 6 months<br>-20°C 1 month |




## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 125 mg/mL (270.17 mM; Need ultrasonic)

| Preparing Stock Solutions | Mass / Solvent / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 2.1614 mL | 10.8068 mL | 21.6137 mL |
| | 5 mM | 0.4323 mL | 2.1614 mL | 4.3227 mL |
| | 10 mM | 0.2161 mL | 1.0807 mL | 2.1614 mL |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

**Description**

MM11253 is a potent and selective RARγ antagonist with an $IC_{50}$ of 44 nM. MM11253 has lower inhibition of RARα, RARβ and RXRα. MM11253 blocks the growth inhibitory effects of RARγ-selective agonists[1][3].

**$IC_{50}$ & Target**

| | | | |
|---|---|---|---|
| RARγ<br>44 nM ($IC_{50}$) | RARγ<br>44 nM ($IC_{50}$) | RARγ<br>44 nM ($IC_{50}$) | RARα<br>1000 nM ($IC_{50}$) |
| RARα<br>1000 nM ($IC_{50}$) | RARα<br>1000 nM ($IC_{50}$) | RARβ<br>>1000 nM ($IC_{50}$) | RARβ<br>>1000 nM ($IC_{50}$) |
| RARβ<br>>1000 nM ($IC_{50}$) | RXRα<br>>1000 nM ($IC_{50}$) | | |

**In Vitro**

MM11253 blocks the ability of MM11254 and MM11389 to inhibit squamous cell carcinoma cell growth[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. M I Dawson, et al. Retinoic acid (RA) receptor transcriptional activation correlates with inhibition of 12-O-tetradecanoylphorbol-13-acetate-induced ornithine decarboxylase (ODC) activity by retinoids: a potential role for trans-RA-induced ZBP-89 in ODC inhibition. Int J Cancer. 2001 Jan 1;91(1):8-21.

[2]. Q Le, et al. Modulation of retinoic acid receptor function alters the growth inhibitory response of oral SCC cells to retinoids. Oncogene. 2000 Mar 9;19(11):1457-65.



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