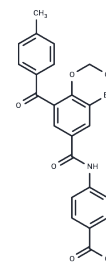


AGN 196996

## Chemical Properties

CAS No. : 958295-17-5  
 Formula: C<sub>24</sub>H<sub>20</sub>BrNO<sub>5</sub>  
 Molecular Weight: 482.32  
 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   | AGN 196996 is a potent and selective inhibitor of RAR $\alpha$ (K <sub>i</sub> : 2 nM), exhibiting very low affinity for RAR $\beta$ (K <sub>i</sub> : 1087 nM) and RAR $\gamma$ (K <sub>i</sub> : 8523 nM).   |
| Targets(IC50) | Retinoid Receptor, Autophagy   |
| In vitro      | AGN 196996 is a potent and selective RAR $\alpha$ antagonist with a K <sub>i</sub> value of 2 nM; little binding affinity for RAR $\beta$ (K <sub>i</sub> =1087 nM) and RAR $\gamma$ (K <sub>i</sub> =8523 nM). RAR $\alpha$ antagonist AGN 196996 shows no activity in transactivation assays but instead blocks the gene transcriptional activity induced by ATRA and other RAR agonists.[1] |

## Solubility Information

|                     |  |
|---------------------|--|
| Solubility          | DMSO: 225 mg/mL (466.5 mM), Sonication is recommended.<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+90% Corn Oil: 3.3 mg/mL (6.84 mM), Sonication is recommended.<br><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

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|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.0733 mL | 10.3666 mL | 20.7331 mL |
| 5 mM  | 0.4147 mL | 2.0733 mL  | 4.1466 mL  |
| 10 mM | 0.2073 mL | 1.0367 mL  | 2.0733 mL  |
| 50 mM | 0.0415 mL | 0.2073 mL  | 0.4147 mL  |

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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

Hammond LA, et al. Antagonists of retinoic acid receptors (RARs) are potent growth inhibitors of prostate carcinoma cells. *Br J Cancer*. 2001 Aug 3;85(3):453-62.

Keedwell RG, et al. An antagonist of retinoic acid receptors more effectively inhibits growth of human prostate cancer cells than normal prostate epithelium. *Br J Cancer*. 2004 Aug 2;91(3):580-8.

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