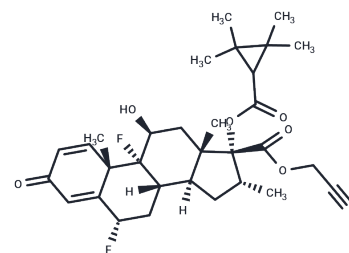


GW-870086

## Chemical Properties

CAS No. : 827319-43-7  
Formula: C<sub>31</sub>H<sub>39</sub>F<sub>2</sub>N<sub>2</sub>O<sub>6</sub>  
Molecular Weight: 559.64  
Appearance: no data available  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                | GW-870086 is an effective anti-inflammatory agent. GW-870086 also plays a role in a glucocorticoid receptor agonist (pIC <sub>50</sub> : 10.1 in A549 cells expressing NF-κB).                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Targets(IC <sub>50</sub> ) | Glucocorticoid Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| In vitro                   | GW-870086 (1 pM-1 μM) dose-dependently inhibits the L-6 release induced by TNF-α in A549 epithelial carcinoma cells and by IL-1 in MG63 osteosarcoma cells (pIC <sub>50</sub> s, 9.6, 10.2)[1]. GW-870086 displays no effect on the MMTV reporter genes in A549 cells and has little or no activity at the oestrogen receptor, progesterone receptor, progesterone receptor, mineralocorticoid receptor or androgen receptor. GW-870086 also has no effect on MMP2 secretion and does not enhance cellular myocilin[2]. GW-870086 (GW870086X; 10-100 nM) obviously increases fibronectin secretion. |

## Solubility Information

|            |                                                                                               |
|------------|-----------------------------------------------------------------------------------------------|
| Solubility | DMSO: 11 mg/mL (19.66 mM),<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|-----------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.7869 mL | 8.9343 mL | 17.8686 mL |
| 5 mM  | 0.3574 mL | 1.7869 mL | 3.5737 mL  |
| 10 mM | 0.1787 mL | 0.8934 mL | 1.7869 mL  |
| 50 mM | 0.0357 mL | 0.1787 mL | 0.3574 mL  |

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.

Reference

Uings IJ, et al. Discovery of GW870086: a potent anti-inflammatory steroid with a unique pharmacological profile. Br J Pharmacol. 2013 Jul;169(6):1389-403.

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