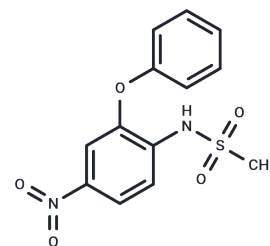


## Nimesulide

### Chemical Properties

|                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| CAS No. :         | 51803-78-2                                                      |
| Formula:          | C <sub>13</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub> S |
| Molecular Weight: | 308.31                                                          |
| Appearance:       | no data available                                               |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year        |



### Biological Description

|               |                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------|
| Description   | Nimesulide (R805) is a relatively COX-2 selective inhibitor with analgesic and antipyretic properties. |
| Targets(IC50) | COX                                                                                                    |

### Solubility Information

|            |                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 55 mg/mL (178.39 mM),<br>Ethanol: 7.7 mg/mL (25 mM),<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|----------------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.2435 mL | 16.2174 mL | 32.4349 mL |
| 5 mM  | 0.6487 mL | 3.2435 mL  | 6.487 mL   |
| 10 mM | 0.3243 mL | 1.6217 mL  | 3.2435 mL  |
| 50 mM | 0.0649 mL | 0.3243 mL  | 0.6487 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

Rainsford KD. Curr Med Res Opin. 2006 Jun;22(6):1161-70.

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