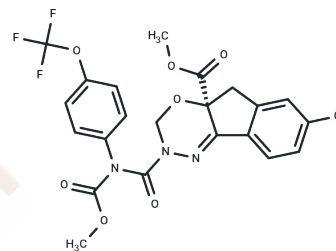


**(±)-Indoxacarb****Chemical Properties**

|                   |   |
|-------------------|---|
| CAS No. :         | 144171-61-9   |
| Formula:          | C <sub>22</sub> H <sub>17</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>7</sub>                                      |
| Molecular Weight: | 527.83  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |

**Biological Description**

|               |   |
|---------------|---|
| Description   | (±)-Indoxacarb is a pyrazoline insecticide with insecticidal activity and cytotoxicity, blocks sodium channels in insect neurons, and can induce apoptosis.   |
| Targets(IC50) | Apoptosis,Sodium Channel  |
| In vitro      | In insects, indoxacarb is metabolically converted to N-demethoxylated JW062 (DCJW), which is more active than the parent compound. Indoxacarb is a promising alternative to pyrethroid insecticides, particularly for the control of agriculturally important lepidopteran pests [1]. |

**Solubility Information**

|            |  |
|------------|--|
| Solubility | DMSO: 8 mg/mL (15.16 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.8945 mL | 9.4727 mL | 18.9455 mL |
| 5 mM  | 0.3789 mL | 1.8945 mL | 3.7891 mL  |
| 10 mM | 0.1895 mL | 0.9473 mL | 1.8945 mL  |
| 50 mM | 0.0379 mL | 0.1895 mL | 0.3789 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.

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

Weizhong Song, et al. Molecular basis of differential sensitivity of insect sodium channels to DCJW, a bioactive metabolite of the oxadiazine insecticide indoxacarb. Neurotoxicology. 2006 Mar;27(2):237-44.

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