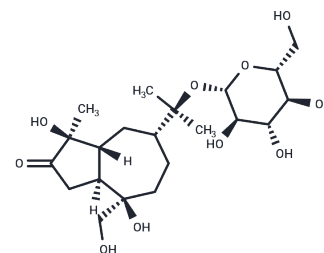


## Atractyloside A

### Chemical Properties

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| CAS No. :         | 126054-77-1                                              |
| Formula:          | C <sub>21</sub> H <sub>36</sub> O <sub>10</sub>          |
| Molecular Weight: | 448.5                                                    |
| Appearance:       | no data available                                        |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year |



### Biological Description

|               |                                                                                                                                                                                                                                             |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | Atractyloside is a glycoside of a kaurene type diterpene that is found in some plants including <i>Atractylis gummifera</i> (ATRACYLIS); COFFEE; XANTHIUM, and CALLILEPIS. Toxicity is due to inhibition of adenine nucleotide translocase. |
| Targets(IC50) | AChR                                                                                                                                                                                                                                        |

### Solubility Information

|            |                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 30 mg/mL (66.89 mM),<br>( $< 1$ mg/ml refers to the product slightly soluble or insoluble) |
|------------|--------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.2297 mL | 11.1483 mL | 22.2965 mL |
| 5 mM  | 0.4459 mL | 2.2297 mL  | 4.4593 mL  |
| 10 mM | 0.223 mL  | 1.1148 mL  | 2.2297 mL  |
| 50 mM | 0.0446 mL | 0.223 mL   | 0.4459 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

Todisco S, et al. Identification of new highly selective inhibitors of the human ADP/ATP carriers by molecular docking and in vitro transport assays. *Biochem Pharmacol.* 2016 Jan 15;100:112-32.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481