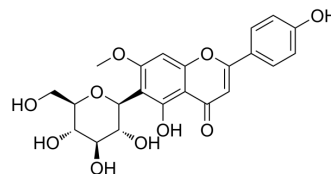


## Swertisin

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-N2189   |
| CAS No.:           | 6991-10-2  |
| Molecular Formula: | C <sub>22</sub> H <sub>22</sub> O <sub>10</sub>  |
| Molecular Weight:  | 446.4  |
| Target:            | Adenosine Receptor   |
| Pathway:           | GPCR/G Protein   |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|   |   |                          |           |            |            |
|---|---|--------------------------|-----------|------------|------------|
| In Vitro  | DMSO : 50 mg/mL (112.01 mM; Need ultrasonic)  |                          |           |            |            |
|   |   | Solvent<br>Concentration | Mass      |            |            |
|   | Preparing<br>Stock Solutions  |                          | 1 mg      | 5 mg       | 10 mg      |
|   |   | 1 mM                     | 2.2401 mL | 11.2007 mL | 22.4014 mL |
|   |   | 5 mM                     | 0.4480 mL | 2.2401 mL  | 4.4803 mL  |
|   | 10 mM   | 0.2240 mL                | 1.1201 mL | 2.2401 mL  |            |
| Please refer to the solubility information to select the appropriate solvent. |   |                          |           |            |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>Solubility: ≥ 1.25 mg/mL (2.80 mM); Clear solution |                          |           |            |            |
|   | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 1.25 mg/mL (2.80 mM); Clear solution            |                          |           |            |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 1.25 mg/mL (2.80 mM); Clear solution                            |                          |           |            |            |

### BIOLOGICAL ACTIVITY

|             |  |
|-------------|--|
| Description | Swertisin, a C-glycosylflavone isolated from <i>Iris tectorum</i> , is known to have antidiabetic, anti-inflammatory and antioxidant effects. Swertisin is an adenosine A1 receptor antagonist <sup>[1][2]</sup> . |
|-------------|--|

### REFERENCES

[1]. Oh HK, et al. Swertisin ameliorates pre-pulse inhibition deficits and cognitive impairment induced by MK-801 in mice. *J Psychopharmacol.* 2017 Feb;31(2):250-259.

---

[2]. Lee HE, et al. Swertisin, a C-glucosylflavone, ameliorates scopolamine-induced memory impairment in mice with its adenosine A1 receptor antagonistic property. Behav Brain Res. 2016 Jun 1;306:137-45.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA