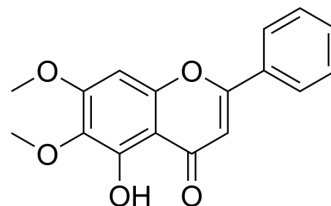


## Mosloflavone

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-N2036   |
| CAS No.:           | 740-33-0   |
| Molecular Formula: | C <sub>17</sub> H <sub>14</sub> O <sub>5</sub>   |
| Molecular Weight:  | 298.29   |
| Target:            | Enterovirus; Bacterial; TNF Receptor   |
| Pathway:           | Anti-infection; Apoptosis  |
| 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 (167.62 mM; Need ultrasonic)   |                          |      |       |           |            |            |
|   | Preparing Stock Solutions  | Solvent<br>Concentration | Mass | 1 mg  | 5 mg      | 10 mg      |            |
|   |  |                          |      | 1 mM  | 3.3524 mL | 16.7622 mL | 33.5244 mL |
|   |  |                          |      | 5 mM  | 0.6705 mL | 3.3524 mL  | 6.7049 mL  |
|   |  |                          |      | 10 mM | 0.3352 mL | 1.6762 mL  | 3.3524 mL  |
| Please refer to the solubility information to select the appropriate solvent. |  |                          |      |       |           |            |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: 2.5 mg/mL (8.38 mM); Suspended solution; Need ultrasonic |                          |      |       |           |            |            |

### BIOLOGICAL ACTIVITY

|                           |  |
|---------------------------|--|
| Description               | Mosloflavone is a flavonoid isolated from <i>Scutellaria baicalensis</i> Georgi with ?anti-EV71 activity. Mosloflavone? inhibits VP2 virus replication and protein expression during the initial stage of virus infection and inhibits viral VP2 capsid protein synthesis. Mosloflavone is a promising biocide and inhibits <i>P. aeruginosa</i> virulence and biofilm formation.  |
| IC <sub>50</sub> & Target | IC50: EV71; bacterial <sup>[1][2]</sup>  |
| In Vitro                  | Mosloflavone shows promising anti-inflammatory activity via inhibition of TNF-α and IL-1β with IC <sub>50</sub> values of 16.4 μM and 6.4 μM, respectively; inhibits TNF-α, IL-1β and iNOS levels in the supernatant of mouse macrophage cell line J774A as a dose-dependent manner, it also can be used as a starting point to discover lead structures for treatment of inflammatory and immunomodulatory diseases <sup>[2]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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## REFERENCES

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- [1]. Choi HJ, et al. Inhibitory Effects of Norwogonin, Oroxylin A, and Mosloflavone on Enterovirus 71. *Biomol Ther (Seoul)*. 2016 Sep 1;24(5):552-8.
- [2]. Hnamte S, et al. Mosloflavone attenuates the quorum sensing controlled virulence phenotypes and biofilm formation in *Pseudomonas aeruginosa* PAO1: In vitro, in vivo and in silico approach. *Microb Pathog*. 2019 Jun;131:128-134.
- [3]. Singh B, et al. Anti-inflammatory and immunomodulatory flavones from *Actinocarya tibetica* Benth. *Nat Prod Res*. 2013;27(23):2227-30.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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