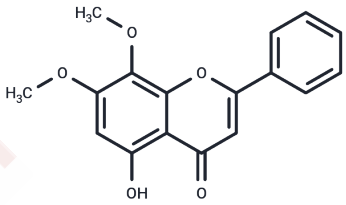
# Data Sheet (Cat.No.T5773)

TargetMol

## Moslosooflavone

### Chemical Properties



CAS No. : 3570-62-5

Formula: C17H14O5

Molecular Weight: 298.29

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

### Biological Description

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|---|---|
| Description | Moslosooflavone (5-hydroxy-7,8-dimethoxyflavone) has anti-hypoxia activity, it can significantly prolong the survival time of hypoxic mice. 5-hydroxy-7,8-dimethoxyflavone significantly inhibits the transcriptional activity of NF-kappaB in LPS/IFN-gamma stimulated RAW 264.7 macrophages. |
| Targets(IC50) | NF-κB,Reactive Oxygen Species,ROS |
| In vitro | 5-hydroxy-7,8-dimethoxyflavone significantly decreased TNF-alpha, IL-6, macrophage inflammatory protein-2 (MIP-2), and nitric oxide (NO) secretions from LPS/IFN-gamma stimulated RAW 264.7 cells[1]. |
| In vivo | 5-hydroxy-7,8-dimethoxyflavone can significantly prolong the survival time of hypoxic mice[2]. |
| Animal Research | The chemical constituents, isolated and purified by column chromatography from Saussurea invo lucrata, were identified by several spectroscopic methods. The anti-hypoxic activities of these compounds were examined using the normobaric hypoxic model of mice[2]. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 10 mg/mL (33.52 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 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 |
| 50 mM | 0.067 mL | 0.3352 mL | 0.6705 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

Chao W W , Kuo Y H , Lin B F . Anti-inflammatory Activity of New Compounds from Andrographis paniculata by NF-??B Transactivation Inhibition[J]. Journal of Agricultural and Food Chemistry, 2010, 58(4):2505-2512.

Jing L L , He L , Fan P C , et al. [Chemical Constituents with Anti-hypoxia Activity from Saussurea involucrata][J]. Zhong yao cai = Zhongyaocai = Journal of Chinese medicinal materials, 2015, 38(1):89-92.