# 5,6,7-Trimethoxyflavone

**Cat. No.:** HY-110398

**CAS No.:** 973-67-1

**Molecular Formula:** $C_{18}H_{16}O_5$

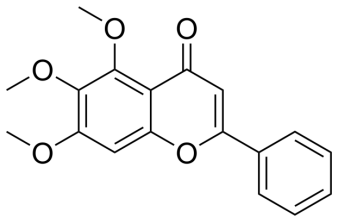
**Molecular Weight:** 312.32

**Target:** p38 MAPK

**Pathway:** MAPK/ERK Pathway

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 33.33 mg/mL (106.72 mM; Need ultrasonic)

**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 3.2018 mL | 16.0092 mL | 32.0184 mL |
| 5 mM | 0.6404 mL | 3.2018 mL | 6.4037 mL |
| 10 mM | 0.3202 mL | 1.6009 mL | 3.2018 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
   Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.00 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

5,6,7-Trimethoxyflavone is a novel p38-α MAPK inhibitor with an anti-inflammatory effect. 5,6,7-Trimethoxyflavone is isolated from several plants including Zeyhera tuberculosa, Callicarpa japonica, and Kickxia lanigera[1].

**$IC_{50}$ & Target**

p38-α MAPK[1]

## REFERENCES

[1]. Hassan AHE, et al. Repurposing mosloflavone/5,6,7-trimethoxyflavone-resveratrol hybrids: Discovery of novel p38-α MAPK inhibitors as potent interceptors of

macrophage-dependent production of proinflammatory mediators. Eur J Med Chem. 2019 Jul 9;180:253-267.



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