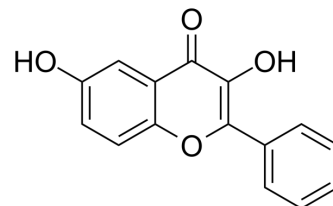


3,6-Dihydroxyflavone

| | | | |
|--------------------|--|-------|----------|
| Cat. No.: | HY-N8481 | | |
| CAS No.: | 108238-41-1 | | |
| Molecular Formula: | C ₁₅ H ₁₀ O ₄ | | |
| Molecular Weight: | 254.24 | | |
| Target: | Apoptosis | | |
| Pathway: | Apoptosis | | |
| 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 : 66.67 mg/mL (262.23 mM; Need ultrasonic) | | | |
| | | Solvent Concentration | Mass | |
| | | | 1 mg | 5 mg |
| | Preparing Stock Solutions | 1 mM | 3.9333 mL | 19.6665 mL |
| | 5 mM | 0.7867 mL | 3.9333 mL | |
| | 10 mM | 0.3933 mL | 1.9666 mL | 3.9333 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 (9.83 mM); Clear solution | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------|---|
| Description | 3,6-Dihydroxyflavone is an anti-cancer agent. 3,6-Dihydroxyflavone dose- and time-dependently decreases cell viability and induces apoptosis by activating caspase cascade, cleaving poly (ADP-ribose) polymerase (PARP). 3,6-Dihydroxyflavone increases intracellular oxidative stress and lipid peroxidation ^[1] . |
|-------------|---|

REFERENCES

[1]. Chang H, et al. 3,6-Dihydroxyflavone induces apoptosis in leukemia HL-60 cell via reactive oxygen species-mediated p38 MAPK/JNK pathway. Eur J Pharmacol. 2010;648(1-3):31-38.

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

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