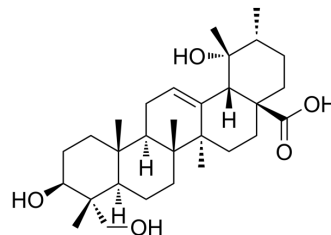


Rotundic acid

| | |
|--------------------|--|
| Cat. No.: | HY-N2217 |
| CAS No.: | 20137-37-5 |
| Molecular Formula: | C ₃₀ H ₄₈ O ₅ |
| Molecular Weight: | 488.7 |
| Target: | Akt; mTOR; p38 MAPK; Apoptosis |
| Pathway: | PI3K/Akt/mTOR; MAPK/ERK Pathway; Apoptosis |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | | |
|---|---|-----------------------|------|-------|-----------|------------|------------|
| In Vitro | DMSO : 100 mg/mL (204.62 mM; Need ultrasonic) | | | | | | |
| | Preparing Stock Solutions | Solvent Concentration | Mass | 1 mg | 5 mg | 10 mg | |
| | | | | 1 mM | 2.0462 mL | 10.2312 mL | 20.4625 mL |
| | | | | 5 mM | 0.4092 mL | 2.0462 mL | 4.0925 mL |
| | | | | 10 mM | 0.2046 mL | 1.0231 mL | 2.0462 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 (5.12 mM); Suspended solution; Need ultrasonic | | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.12 mM); Suspended solution; Need ultrasonic | | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.12 mM); Clear solution | | | | | | |

BIOLOGICAL ACTIVITY

| | | |
|---------------------------|--|----------|
| Description | Rotundic acid, a triterpenoid obtained from <i>Ilex rotunda</i> Thunb., induces DNA damage and cell apoptosis in hepatocellular carcinoma through AKT/mTOR and MAPK Pathways. Rotundic acid possesses anti-inflammatory and cardio-protective abilities ^[1] . | |
| IC ₅₀ & Target | mTOR | p38 MAPK |

REFERENCES

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

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