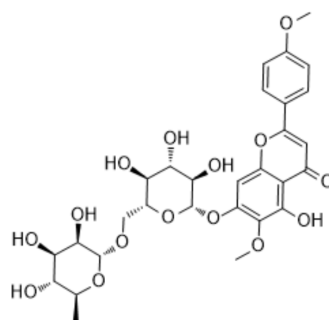


Pectolarin

| | |
|---------------------------|--|
| Cat. No.: | HY-N0314 |
| CAS No.: | 28978-02-1 |
| Molecular Formula: | C ₂₉ H ₃₄ O ₁₅ |
| Molecular Weight: | 622.57 |
| Target: | Interleukin Related; Prostaglandin Receptor; Apoptosis |
| Pathway: | Immunology/Inflammation; GPCR/G Protein; 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 : 31.25 mg/mL (50.20 mM; Need ultrasonic) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 1.6062 mL | 8.0312 mL | 16.0625 mL |
| | | 5 mM | | 0.3212 mL | 1.6062 mL | 3.2125 mL |
| | 10 mM | | 0.1606 mL | 0.8031 mL | 1.6062 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: 2.08 mg/mL (3.34 mM); Suspended solution; Need ultrasonic | | | | | |
| | 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.34 mM); Clear solution | | | | | |
| | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.34 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | | | |
|-------------------------------------|---|----|------|
| Description | Pectolarin possesses anti-inflammatory activity ^[1] . Pectolarin inhibits secretion of IL-6 and IL-8, as well as the production of PGE2 and NO. Pectolarin suppresses cell proliferation and inflammatory response and induces apoptosis via inactivation of the PI3K/Akt pathway ^[2] . | | |
| IC₅₀ & Target | IL-6 | EP | IL-8 |
| In Vitro | Pectolarin increases Bax level, and decreases Bcl-2 level in rheumatoid arthritis fibroblast-like synoviocytes (RA-FLSs). Pectolarin inactivates the PI3K/Akt pathway in RA-FLSs ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | |

REFERENCES

- [1]. Lim H, et al. Anti-inflammatory activity of pectolinarigenin and pectolinarin isolated from *Cirsium chanroenicum*. *Biol Pharm Bull.* 2008 Nov;31(11):2063-7.
- [2]. Wang L, et al. Pectolinarin inhibits proliferation, induces apoptosis, and suppresses inflammation in rheumatoid arthritis fibroblast-like synoviocytes by inactivating the phosphatidylinositol 3 kinase/protein kinase B pathway. *J Cell Biochem.* 2019 Sep;120(9):15202-15210.
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Caution: Product has not been fully validated for medical applications. For research use only.

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