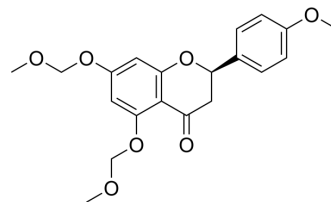


ARI-1

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-139534 | | |
| Molecular Formula: | C ₂₀ H ₂₂ O ₇ | | |
| Molecular Weight: | 374.38 | | |
| Target: | ROR; Apoptosis | | |
| Pathway: | Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; 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 : 100 mg/mL (267.11 mM; Need ultrasonic) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 2.6711 mL | 13.3554 mL | 26.7108 mL |
| | | 5 mM | | 0.5342 mL | 2.6711 mL | 5.3422 mL |
| 10 mM | | 0.2671 mL | 1.3355 mL | 2.6711 mL | | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.68 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.68 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.68 mM); Clear solution; Need ultrasonic | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | ARI-1 is an inhibitor of receptor tyrosine kinase-like orphan receptor 1 (ROR1) inhibitor. ARI-1 effectively inhibits aberrant ROR1 expression, which is associated with the development of non-small cell lung cancer (NSCLC) and EGFR-TKI-induced drug resistance. ARI-1 binds to the extracellular Frizzled domain of ROR1 and regulates PI3K/AKT/mTOR signaling in a ROR1-dependent manner. ARI-1 potently inhibits NSCLC cell proliferation and migration and has antitumor activity in vivo ^[1] . |
| IC₅₀ & Target | receptor tyrosine kinase-like orphan receptor 1 (ROR1) ^[1] |

REFERENCES

[1]. Liu X, et al. Novel ROR1 inhibitor ARI-1 suppresses the development of non-small cell lung cancer. Cancer Lett. 2019 Aug 28;458:76-85.

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

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