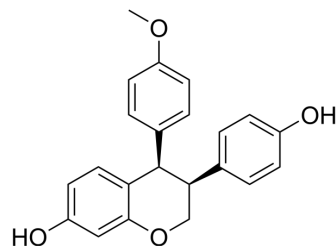


Triphen diol

| | |
|---------------------------|---|
| Cat. No.: | HY-14570 |
| CAS No.: | 1213777-80-0 |
| Molecular Formula: | C ₂₂ H ₂₀ O ₄ |
| Molecular Weight: | 348.39 |
| Target: | Apoptosis |
| Pathway: | Apoptosis |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | | | | | | |
|--------------------|--|------------|---|----------------|-------|------------------|------|---------|---|
| Description | Triphen diol is a phenol diol derivative, which has excellent anticancer activity against pancreatic cancer and cholangiocarcinoma, and can induce pancreatic cell apoptosis through two mechanisms, caspase-mediated and caspase-independent ^[1] . | | | | | | | | |
| In Vitro | <p>Triphen diol (0-10 μM, 48-120 h) can inhibit the proliferation of pancreatic cells and induce apoptosis, with an IC₅₀ value of 8 μM for HPAC and PANC-1 cells and an IC₅₀ value of 0.8 for MIAPaCa-2 cells μM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Apoptosis Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Human pancreatic cell lines HPAC, MIAPaCa-2, and PANC-1</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Induced caspase-dependent apoptosis in MIAPaCa-2 and PANC-1 cells, 60% of the cells were in the early stage of apoptosis, and 30% of the cells were in the late stage of apoptosis. Reduced Bcl-2 levels in MIAPaCa-2 and HPAC cell lines.</td> </tr> </table> | Cell Line: | Human pancreatic cell lines HPAC, MIAPaCa-2, and PANC-1 | Concentration: | 10 μM | Incubation Time: | 48 h | Result: | Induced caspase-dependent apoptosis in MIAPaCa-2 and PANC-1 cells, 60% of the cells were in the early stage of apoptosis, and 30% of the cells were in the late stage of apoptosis. Reduced Bcl-2 levels in MIAPaCa-2 and HPAC cell lines. |
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| In Vivo | Triphen diol (50 mg/kg, oral gavage, daily, 15 days) can significantly inhibit tumor proliferation in male Balb/c nude mice transplanted with MIAPaCa2 cell line, and can be combined with gemcitabine to show better efficacy ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | | | | | | | | |

REFERENCES

[1]. Xiaohong Wang, et al. Triphen diol (NV-196), development of a novel therapy for pancreatic cancer. *Anticancer Drugs*. 2011 Sep;22(8):719-31.

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

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