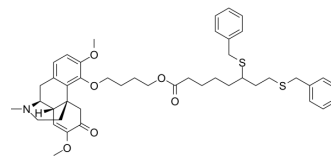


Antiproliferative agent-43

| | |
|---------------------------|---|
| Cat. No.: | HY-155413 |
| Molecular Formula: | C ₄₅ H ₅₇ NO ₆ S ₂ |
| Molecular Weight: | 772.07 |
| Target: | Apoptosis |
| Pathway: | Apoptosis |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| Description | Antiproliferative agent-43 (Compound e4) has notable cytotoxic effects against cancer cell lines and causes apoptosis by stopping the cell cycle at G1 phase ^[1] . | |
|------------------|---|---|
| In Vitro | Antiproliferative agent-43 (0, 1.23, 2.45, 2.90 μM, 48 h) induces G1 phase cell cycle arrest in K562 cells, accompanied by abnormal nuclear morphology ^[1] . | |
| | Antiproliferative agent-43 (0, 1.23, 2.45 , 2.90 μM, 48 h) apoptosis induces by mitochondrial pathway in K562 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. | |
| | Cell Cycle Analysis ^[1] | |
| | Cell Line: | K562 |
| | Concentration: | 0, 1.23, 2.45 , 2.90 μM |
| | Incubation Time: | 48h |
| | Result: | Induced G1 phase cell cycle arrest in the K562 cell line. |
| | Apoptosis Analysis ^[1] | |
| | Cell Line: | K562 |
| | Concentration: | 0, 1.23, 2.45 , 2.90 μM |
| Incubation Time: | 48h | |
| Result: | The apoptotic cells induced by antiproliferative agent-43 increased from 6.35% in the negative control to 13.36, 37.99, and 64.94%, with a concentration-dependent manner. | |

REFERENCES

[1]. Gao X, et al. Discovery of sinomenine/8-Bis(benzylthio)octanoic acid hybrids as potential anti-leukemia drug candidate via mitochondrial pathway. *Bioorg Med Chem Lett.* 2023 Nov 7;97:129545.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA