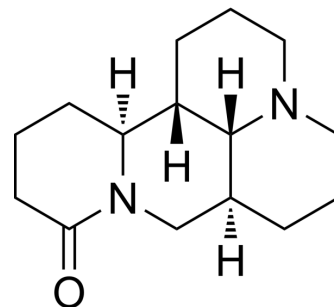


d-Sophoridine

| | |
|--------------------|---|
| Cat. No.: | HY-N1373A |
| CAS No.: | 83148-91-8 |
| Molecular Formula: | C ₁₅ H ₂₄ N ₂ O |
| Molecular Weight: | 248.36 |
| Target: | Apoptosis |
| Pathway: | Apoptosis |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | d-Sophoridine ((+)-Sophoridine) is the dextro isoform of Sophoridine (HY-N1373), which is a quinolizidine alkaloid isolated from Leguminous plant <i>Sophora flavescens</i> . Sophoridine induces apoptosis. Sophoridine has the potential to be a novel, potent and selective antitumor agent candidate for pancreatic cancer with well-tolerated toxicity ^[1] . |
| In Vitro | Sophoridine (0-500 μM; 48 hours) exhibits remarkable inhibition effects to the growth of human pancreatic, gastric, liver, colon, gallbladder, and prostate carcinoma cells with IC ₅₀ values of about 20 μM to 200 μM ^[1] . Sophoridine (0-20 μM; 48 hours) increases S phase cell population from 26.23% (control) to 38.67% in Miapaca-2 cells and from 29.56% (control) to 39.16% in PANC-1 cells, about a 1.5-fold and a 1.3-fold increase, respectively ^[1] . Sophoridine (0-20 μM; 48 hours) significantly increases bad and bax levels, and decreases bcl-2 and bcl-xl levels in contrast, with a significant increase in Bax/Bcl-2 ratio ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | Sophoridine (intraperitoneal injection; 20 or 40 mg/kg; 21 days) can inhibit the growth of xenograft pancreatic tumors ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Xu Z, et al. Sophoridine induces apoptosis and S phase arrest via ROS-dependent JNK and ERK activation in human pancreatic cancer cells. *J Exp Clin Cancer Res*. 2017 Sep 11;36(1):124.

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

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